

Euro-2100

User manual

manual version 1.0



This manual was not subject to any language revision.

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Introduction	7
Important	7
Basic definitions	8
Logo	8
Department	8
Tax level	9
Sales units	9
PLU	9
Relationship between departments and PLUs	9
Report	9
Bar code	9
Bar-code scanner	10
System flags	10
Cumulated totals (grandtotals)	10
Cash register characteristics	11
Parts of the cash register, basic parameters	11
Extensibility options	12
Euro-2100 keyboard	13
Names and functions of ECR keys	14
Cashier display description	15
Customer display description	15
ECR displays description	15
Mode switch	16
Paper ribbons installation	16
Usage and storage of thermal paper	17
Calculator feature description	18
Programming manual	19
Initialisation	19
Recommended procedure for Euro-2100 programming	19
Flags programming	19
Initial programming of system flags	19
System flags correction	20
Printing flags values	20
Flag 1 – Number of decimal places, method of rounding, TAX system	20
Flag 2 - TAX printing, number of logo lines, blank lines	20
Flag 3 - Receipt consecutive number, cash register number	20
Flag 4 - Required operations	20
Flag 5 - Parameters of serial communication	21
Flag 6 - Printing mode setting	21
Flag 7 - Limit and value of the percent add-on	21
Flag 9 - Time setting	22
Extended flags programming	22
Flag 8 - Limit and value of the percent discount	22
Flag 10 - Date setting	22

Tax rates programming	23
Correction of the tax level values	23
Printing of the preprogrammed tax values	23
Receipt logo programming	23
Correction of the logo lines	24
Printing the programmed logo lines.	24
Cashier programming	24
Correction of cashiers	25
Printing of Cashier values	25
Function text programming	25
Correction of function texts	25
Printing function texts setting	26
Departments programming	26
Correcting departments.	27
Printing department values	27
Sale unit programming	27
Correcting programmed sale units.	27
Printing sale unit settings.	28
Article items (PLU) programming	28
Programming procedure:	28
Setting up the bar-code scanner	30
Quick PLU price programming	30
Quick PLU stock programming	30
Correction of programmed PLUs	31
Printing the programmed PLUs	31
Programming the euro currency	31
Stage without euro currency	31
First euro currency stage	31
Procedure for entering the first euro stage:	31
Second euro currency stage	31
Third euro currency stage	32
Entering texts into ECR	32
Programming of programmable keyboard keys	33
Deleting the key function	33
Printing of the programmed key name	34
Printing of the programmed key function.	34
Printing the settings for all keys	34
Operation in registration mode	35
Recommended procedures at the beginning of the day	35
Printing modes	35
Status and functions required at the beginning of registration.	35
Error warning: the CLEAR key	35
Cashier log in: the Password key	36
Cashier log out: the (Password) key	36
Finalizing a transaction: Cash, Cheque, Credit keys	36
Samples of basic registration procedures	36
Registration using departments.	37
Basic registration using departments	37
Registration using departments with price entry using keyboard.	37
Registration using departments with pre-programmed price	38
Registering multiple items using departments	38
Multiplying items during registration using departments.	38
Registering fractions of items using departments	39
Double multiplication of items during registration using departments	39

Single item sales using into departments	40
PLU registration	40
Basic PLU registration	40
Multiplication in PLU registration	41
Individual PLU registration	41
Overriding the pre-programmed PLU price	41
Fractional PLU registration	42
Double multiplication in PLU registration	42
Other means of registration	42
Registration using bar-codes	42
Weight entry by electronic scales	43
Registration using an external PC keyboard	43
PC ON-LINE mode	43
Data are transmitted from a PC to the cash register	43
Data are transmitted from the cash register to PC:	44
Clearing	44
Percent surcharge and discount	45
Percent surcharge	46
Percent discount	46
Reference number and customer number	46
Received on account	47
Paid out (cash or cheque)	47
Refunds	48
Registration using the euro currency	49
Stage without euro	49
First euro currency stage	49
Second euro currency stage	50
Third stage of the Euro	50
Reports	51
How to print out reports	51
Generated reports	51
Report contents	51
Department report	51
PLU report	51
Stock level report	52
Financial report	52
Cashier report	52
Total daily "X" report	52
Periodical "X" report	52
Total daily "Z" report	52
Periodical "Z" report	53
How to print "X" reports	53
Samples of "X" reports	53
Samples of "Z" reports	55
How to print "Z" reports	55
Euro2A software	57
Optional ECR accessories	58
Cash drawer	58
Electronic scales	58
Bar-code scanners	58
Metrologic MS-5145 ECLIPSE	59

Metrologic MS-6720	59
Metrologic Orbit MS-7120	59
Metrologic MS-7625 - Horizon	59
Metrologic MS-9520 Voyager	59
Electronic payment terminals	59
External keyboard	59
UV LED banknote checker	60
Optional internal battery	60
LAN connection options	60
New features of Elcom ECRs	60
Helpful advice	61
Information and error messages	61
What to do in case of power failure?	63
Power failure	63
Failures of register as a result of interference in power network	63
What to do in case of “Low BAT., finish sale ” signal	63
Self tests	64
Self-test of the electronics and display	64
Self-test of the printer	64
Self-test of keyboard	64
Service codes of the ECR	64

Introduction

Dear customer,


You have selected the state-of-the-art electronic cash register Euro-2100 in which you get not only an ardent helper, but also a tool that greatly helps your management.

Thank you for the confidence you show in using our product and we believe that Euro-2100 will help you manage your store effectively and help you reach desired success.

We would greatly appreciate when you share your experience with operation of this cash register, which will allow us to customise this product to suit your needs.

Important

- Install the cash register in a place where it will not be exposed to direct sunlight, unusual temperature changes (under 0 °C and above 50 °C) or high humidity. Installation in such places could result in damage to both the cabinet and electrical components.
- In the case that internal battery is included:
 - Leave the cash register turned on for at least 8 hours to charge internal accumulator to full capacity,
 - It is strongly recommended to start battery charging after battery discharge signalling to ensure long operating life and preservation of the battery capacity,
 - If the external power adapter is connected to the cash register, internal battery is charged also in the case that cash register is turned off.
- When the cash register battery is charged, the cover can increase its temperature. We do not recommend to place the cash register near flammable materials.
- After transporting the unit from a cold environment to a warm one and vice-versa, do not switch the cash register on for a minimum of 20 minutes in order to give all components time to adjust to the new temperature conditions.
- An individual having wet hands should not operate the cash register. Water could seep into the interior of the Euro-2100 and cause component failure.
- Clean the cash register with a dry, soft cloth. Never use cleaning agents such as petrol or solvents. Using such chemicals can result in discolouration or deterioration of cabinet.
- Avoid spilling of any liquids on the cash register as they may cause damage. The keyboard should be carefully protected.
- Connect the cash register with the supplied adapter into a standard network plug (230V ± 10%). Other electrical equipment connected in the same network circuit may cause improper functioning of the cash register. In an environment with strong interference use the special anti-interference aids recommended by the manufacturer of the cash register.
- If the cash register malfunctions, contact your authorised dealer for service. Do not try to repair the register yourself. Do not open the cash register!
- Pull out the AC/DC adapter plug from its electrical plug if the device is to be fully disconnected.
- If the external adapter is connected to the cash register, then the internal lead acid accumulator is charged even when the cash register is turned off.
- During a receipt printing, wait until the printer has finished before tearing the receipt. Do not tear off the receipt during printing as printer damage may result.
- If the red streak appears at the end of the paper ribbon, exchange this ribbon as soon as possible. If the ribbon is exchanged too late, it can damage the printer, or decrease its lifetime.

- Use the paper ribbon, whose end is not glued. If such paper ribbon is used and not exchanged early enough, the printer could be damaged or its lifetime could be shortened. In this case, the damaged printer warranty is not valid.
- Use only high-quality thermal paper ribbons. Improper ribbons may damage the printer or shorten its lifetime. When using suitable ribbons and by properly maintaining the printer, the average lifetime is up to 25 million lines!
- Journal paper storage recommendations: Do not expose thermal paper to light. Store at a temperature not higher than 40 °C. Avoid contact of thermal paper with PVC, mollificators, organic solvents or glue.
- Use only the supplied AC/DC adapter or a source recommended by an authorised dealer for electrical connection. The use of other adapter types may result in damage to the adapter or the cash register.
- Use only the program recommended by your authorised dealer and use only the original interconnecting cable for cash register communication with a computer. For bar code scanners, use only the connector recommended in these instructions.
- If the cash register is not to be used for a long time, **it is necessary to turn on the cash register for at least eight hours every half year** to charge the internal NiCd memory back up accumulator and to prevent data memory loss. Note that the capacity of the internal lead acid accumulator drops to about 70 % in six months.
- If the cash register is used in ways other than those described in these instructions, the dealer cannot be responsible for incorrect data or damage that may result.
- Only equipment which meets the European Union standards (CE) can be connected to the Euro-2100. In other cases, the Elcom company cannot guarantee the adherence to standards of whole system. Ask the Elcom company or your authorised dealer of Euro-2100 for more information.
-  The symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable take-back scheme for the recycling of electrical and electronic equipment.
By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health.
- Do not leave appliance unattended while it is in use.

Basic definitions

Logo

The heading on each printed receipt is introductory information preceding the description of the purchased goods. It is mainly used to identify the cash register owner (company name, tax information, company identification, etc.).

Figure 1.1 >
Receipt logo.



Department

Departments (DPTs) are used to denote groups of goods having some common features (dairy products, foodstuffs, fruit, etc.). A department is characterised by it's name, parameters, and by the preprogrammed selling price, if it is used for direct sale.

Tax level

Tax level is used for the tax assessment of the sales line. It's characterized by the percent value and tax type (VAT, DO).

Sales units

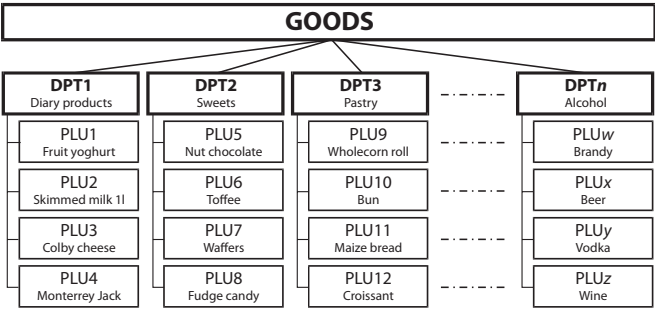
Sales units are used in connection with the quantity of goods sold (metres, litres, etc.). Each PLU has assigned a specific sales unit in which the quantity of the goods sold is indicated. It's possible to program 15 sales units with a maximum of three characters.

PLU

PLU (*Price Look Up*) is an abbreviation for the denomination of the specific goods (goods item). The PLU code represents the article name, the sale price and flags (assignment to an department, VAT level, PLU type etc.). For example: Fat milks - 0,85 GBP, White yoghurt - 1,20 GBP). If the good has an assigned bar-code, this is used as the PLU.

Relationship between departments and PLUs

The example in figure 1.2 clearly illustrates the relation between the departments and the goods items (PLU). Sixteen PLU and four goods groups were used here.



< Figure 1.2
Relationship between
PLUs and departments.

Report

A report is a sales overview of a particular choice (financial, total, cashier, PLU etc.)

There are two basic types of reports: “X” and “Z”.

“X” reports print the concrete sales values (according to the report chosen) without resetting the data.

“Z” reports print the sales values of the chosen report. After printing the values, all values are then reset to zero in the cash register memory.

Bar code

Coding of the numeric description of products into bars corresponds with clearly defined international rules. If a product has an assigned bar-code, it appears on each of these goods. The most frequently used code for product or merchandise denomination in Europe is the 13-digit code according to the EAN norm (EAN-13) and the 8-digit code (EAN-8).

- > Figure 1.3
EAN bar-codes.

Bar-code scanner

A bar-code scanning device is used to improve speed and accuracy in good registration.



EAN-13



EAN-8

System flags

- >> Figure 1.4
Bar-code scanner.

System flags are basic settings of the register that largely influence correctness of cash register functions (Number of decimal places, system of numbers rounding, date, time, etc.).



Cumulated totals (grandtotals)

Cumulated totals are variables that cumulate the values from all sales. There are usually three known grandtotals: **GT₁**, **GT₂**, and **GT₃**. Their meaning is as follows:

- GT₁** - gross turnover - this means the cumulated total of all positive values registered in the ECR
- GT₂** - net turnover - the net turnover means the difference between gross turnover and negative turnover
- GT₃** - negative turnover - this means the cumulated total of all negative values (voidances, refunds, discounts...) registered in the ECR.

Cash register characteristics

Parts of the cash register, basic parameters

The Euro-2100 ECR belongs to the middle segment of ECRs. It's designed for more frequented establishments, convenience stores, bars, caffés and luxury stores. The long term experience with development and manufacture of ECR and deployment of the most recent technologies enabled us to produce this mature electronic cash register. The Euro-2100 ECR belongs to the top of the class with regard to its technical parameters and friendliness of use.

Euro-2100 is very well technically equipped -- it's possible to connect the Euro-2100 to a PC, attach a bar-code reader, electronic payment terminal and electronic scales. Other accessories include cash drawer, external PC keyboard or a specialised EK-3000 keyboard which is especially suited for operation in small stores, restaurants and hotels. The Euro-2100 also optionally includes an internal battery (which allows up to eight hours of cordless operation), an UV LED module for checking of banknotes (excellent built-in device to uncover forgery) and an optional ECR memory extension (up to 27,000 PLU).

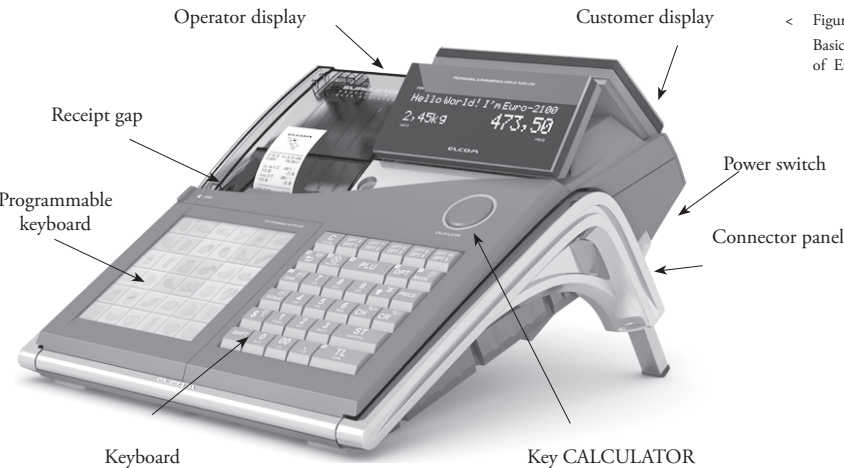
The Euro-2100 ECR can be powered from:

- 230V (± 10%) power mains via power adapter
- built-in battery (optional)

The packaging contains the ECR itself, power adapter and CD with support and PC communication software suite.

The optional equipment includes a cash drawer, electronic scales, bar-code scanner, and internal battery. The unique ECR feature of Euro-2100 is USB connectivity to a PC. Other PC communication features are communication via RS-232/RS-485 and RS-232/Ethernet interfaces and communication using analogue and GSM modems.

The ECR construction is designed to fit demanding criteria of ideal ergonomy workplace and offers several ways of positioning the ECR on the counter or cash drawer using two-sided adhesive tape. ECR design with extensible props allows for easy access to all communication ports and does not hinder positioning of the ECR.



< Figure 2.1
Basic features
of Euro-2100 ECR

> Table 2.1
Euro-2100 ECR
parameters

Designed for	Small establishments, convenience stores, bars, caf��s, boutiques	Reports	DPT, PLU, cashiers, financial, daily, periodical
Number of PLU	8 000 (27,000)	Cashier display	alphanumeric, 20+10+6 characters
Number of DPT	30	Customer display	alphanumeric, 20+10+6 characters
Number of cashiers	6	PC interface	RS-232, USB
Cashier identification	password, access rights	Payment terminal interface	RS-232
Number of VAT levels	6+1	Interface for scanner and scales	RS-232
Printer	thermal printer LT1320	External keyboard	PC keyboard, EK-3000
Printing speed	max. 17 lines/s	Cash drawer	coil based lock, 24 V
Paper tape	thermal 2x38 mm	Dimensions [mm]	350x320x210
Number of characters in PLU label	20	Weight	2,4 kg
Number of characters in logo	24/12	Power supply	adapter (230 V/24 V 1,5 A)
Logo	up to nine lines	Power management	yes
Large and small characters	yes	Power consumption	max. 36 W
Bold characters		Optional equipment	internal battery, UV LED module for checking banknotes, memory expansion to 27,000 PLU, cash drawer, electronic scales, scanner, electronic payment terminal, Ethernet communication module
Special characters			
Keyboard description			
Language for programming	english		
Language for tapes			
Language for reports			

The unique built-in touch sensitive keyboard, which is manufactured using the up-to-date matrix technology, is the default ECR feature. The unique transparent touch panel allows easy replacement of key labels and also complements the elegant design of Euro-2100 cash register. The keyboard is composed of 36 individually programmable keys. The Shift key is used to programme two levels of data for each key thus extending the key availability to 72

states. Each key can be programmed to produce any sequence of standard keyboard strokes, such as direct registration of individual items, departments, discounts and surcharges etc. Calculator is a new feature that will allow you to perform arithmetic operations (addition, subtraction, multiplication, and division) without registering or while receipt is opened. The ECR offers multiple managerial functions and reports.

Extensibility options

The optional external devices are plugged into connectors that are shown in figure 2.3: power adapter or other external power supply (POWER connector – 1), PC, modem or electronic payment terminal (PC connector – 2), electronic scales and bar-code reader (SCAN/SCALE connector – 3), cash drawer

(DRAW connector – 4), external keyboard (KEYB connector – 5) and USB connection to the PC (6).

Recommendation: Ask your cash register dealer on the possibilities for connecting optional external devices to the ECR.

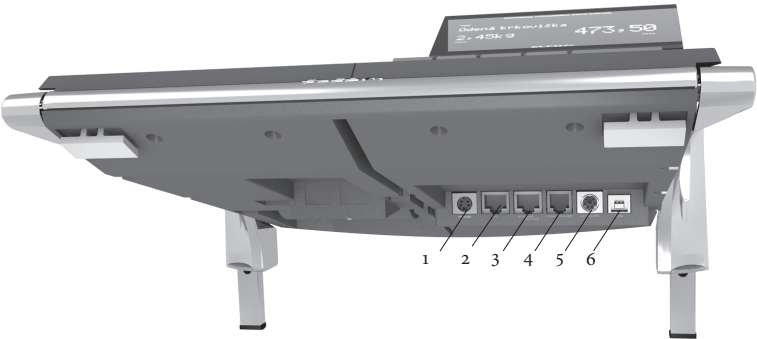
< Figure 2.2

External devices connectible to Euro-2100 ECR



< Figure 2.3

Rear connector panel of Euro-2100 ECR



POWER (1): Power supply adapter port
PC (2): PC/electronic payment terminal port
SCAN./SCALE (3): Electronic scales/bar-code reader port

DRAW. (4): Cash drawer port
KEYB. (5): External keyboard port
USB (6): PC USB port

Euro-2100 keyboard

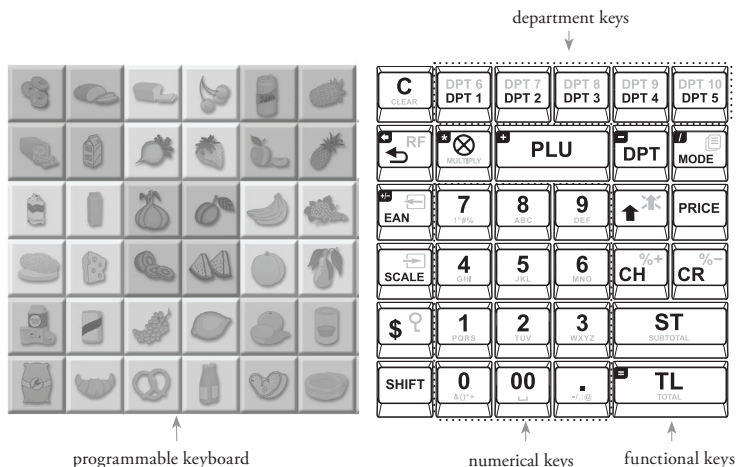
Keyboard of Euro-2100 ECR is divided into three basic key groups – department keys, numeric keys and function keys.

If there are two functions on a single key, then you select the bottom function by simply pressing the key. When you wish to use the top function on a key, the first press and hold Shift key, then press the desired button.

The keyboard is very comfortable and is ready for daytime work. The keys are marked by large simple icons to facilitate ease of orientation.

Warning: The keyboard is sensitive to dusty environments, humidity and dirt. Use dry clean cloth to clean the plastic covers of the ECR. Never use cleaning agents as technical gasoline or solvents. Such chemicals can damage the plastic cover or cause discolouration. If you

Figure 2.4 >
The Euro-2100 ECR
keyboard and its com-
position



need to clean heavily soiled plastic parts, we recommend 3M cleaning spray.

Names and functions of ECR keys

0...**9** Numerical keys are used for entering numerical values and in the programming mode „P“ are used for entering text.

DPT 1...**DPT** Department keys (used during registration of department sales), are used for report of department sales in “X” mode and for department programming in “P” mode.

C The **CLEAR** button is used to clear an amount that has been entered incorrectly from the numeric keyboard. This button also cancels an incorrectly entered function and the sound signalling ERROR/ALARM. It cancels wrong letters when writing texts.

RF The **VOID** button is used to correct an item that has already been registered. It is also used for function texts programming in “P” mode.

SHIFT RF The **REFUND** button enables you to pay back money, e. g. for damaged goods, during the sale or as an independent transaction. It is also used for VAT levels programming in “P” mode.

EAN Pressing the **EAN** button allows you to enter the bar code directly from the keyboard in “R” and “T” mode. In “P” mode, pressing

this button allows you to print the concrete programmed values.

SCALE The **SCALES** button is used to register the weight of goods from the electronic scales. It is also used for PLU stock programming in “P” mode.


SHIFT **PO** The **PO** (Paid out) button is used to register the paid out cash or checks from the cash register as a non-business transaction. See paid-out function. In the void mode (R or T) this button functions as page up or jump through 5 items back. It evokes a monthly (periodical) report in “X” or “Z” mode. It is also used for logo programming in “P” mode.


SHIFT **SCALE** The **RA** (Received on account) button is used to register the received payments if no business transaction has been executed. It records, for example, the insertion of daily opening cash into the drawer. In the void mode (R or T) this button functions as page down or jump forward through 5 items. It is also used for flag programming in “P” mode.


\$ **?** The **DRAWER** button is used to print the customer number or other reference numbers on the receipt. It is also used to open the drawer with no sale. In the void mode (R or T) this button functions as arrow down or jump to next item.


SHIFT **\$** **?** The **PASSWORD** button is used in “R” and “T” mode to identify the cashier by password and to permit the cashier to log in. Through this method, the proper cashier cla-


ims responsibility for the transactions. The name of the logged-in cashier, is printed on each receipt header. The transactions are recorded in the cashier's account and are displayed in the cashier's report. In the void mode (R or T) this button functions as arrow up or jump to the previous item. It is also used to evoke the cashier report in "X" mode and for the cashier programming in "P" mode.

 The **PAPER FEED** button shifts the receipt ribbon without printing. The receipt ribbon is fed in 1,5 cm by pressing this button.


 Pressing the **RECEIPT** button in "T" and "R" mode allows you to switch the receipt printing on and off. The printing switched off is signalled by characters "Prn".


 The **MULTIPLY** button is utilized for multiplication if two or more pieces of the same item are being sold. It used for displaying the time in the registration mode. It is also used to activate the backlight activation in "X" mode.


 The **PRICE** button enables manual entry of an item price rather than the preprogrammed PLU or DPT price. It is also used for fast PLU price programming in "P" mode.


 The **PLU** button (*price look-up*) makes it possible by means of the PLU code to call out the programmed data about an item, price, name, department, VAT, etc. See PLU transactions. It evokes a PLU report in "X" or "Z"




mode. It is also used for PLU programming in "P" mode.


 The **MODE** button is used for switching into the individual modes of the cash register. Exit the STANDBY mode by pressing this button.

 After finishing a transaction, print out the same receipt again by pressing **DUPLICATE** button. The receipt is denoted "DUPLICATE".

 The **CREDIT** button is used to finalize the sale in case of credit card payment.

 The **CHECK** button is used to finalize the transaction in case of check payment. It also evokes a financial report in "X" mode and is used for the programmed data printing in "P" mode.


 a  These two buttons are used to add the percent add-on or to subtract the percent discount for a particular item or for the complete transaction according to the programmed values. The percent add-on button  is also used for sales units programming in "P" mode. The percent discount button (shift+cr) is also used for expended flags programming.

 The **SUBTOTAL** button displays and prints the actual subtotal value according to the setting of the fourth system flag.

ECR displays description

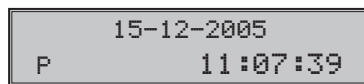
 The **TOTAL/CASH** button is used to finalize the sale in case of cash payment. It also evokes

a daily report in "X" or "Z" mode.

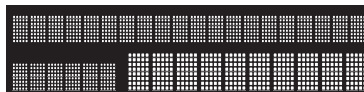
 The function in an upper part of a key is chosen by holding the **SHIFT** button and then pressing the key with two functions

Cashier display description

The cashier display of Euro-2100 is a colour alphanumeric LCD display with 36 characters. The high quality of display, its contrast and brightness are result of black mask technology. This type of display complements the uniqueness of the Euro-2100 cash register. For improved readability, the display is divided into three groups: the article name (first row, twenty characters), amount and type of article (second row, six characters) and finally the article price (second row, ten characters). The visibility of displayed data is also enhanced by the special green-white colour combination for characters and by using two character sizes.



The displays fully support national characters (if needed) and allow also other characters (as numerals and special characters). It's easy and com-



prehensive to read from this type of display.

The customer display has back-light installed by default.




Customer display description

< Figure 2.5
Alphanumeric
LCD display.

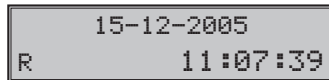
The Euro-2100 customer display is an alphanumeric LCD display (the display type is identical with the cashier display).

The customer display has back-light installed by default.

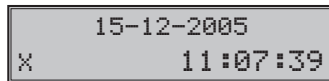
Mode switch

By combining the numerical keys from  to  and the  (MODE) button it is possible to set the mode of the cash register. Such switching thus enables the operator to work in different cash register modes (registration, programming, reports, etc.).



„R“ Registration mode. This mode is used

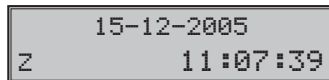


for all registrations and transactions. After switching into this mode, the topical time in the first line and topical date and day in the second line appears on the display until you be-





gin registration.

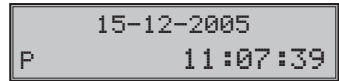
Switching into the „R“ mode:  





operated for certain time limit (see chap. 3.3.9, Flag 6, Digit 5) and it is supplied from internal power supply, it will switch into the “Standby” mode. A cash register in the “Standby” mode has a low consumption of energy. The notification “Standby” appears on the display.

„X“ The „X“ mode is used to print sales reports. The printing of “X” reports does not reset the current sales data.

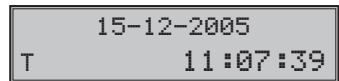
Switching into the „X“:  





„Z“ The „Z“ mode is used to print various reports. The printing of “Z” reports resets the cash register sales data.

Switching into the „Z“:  



„P“ The “P” program mode is used to program all values and functions of the cash



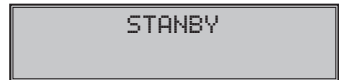
register.

Switching into the “P” mode:  

„T“ The training mode provides all functions of the “R” mode, but in this mode, the transactions are not included in the daily or monthly (periodical) reports. The receipts printed in this mode are marked by the text “Invalid document”.

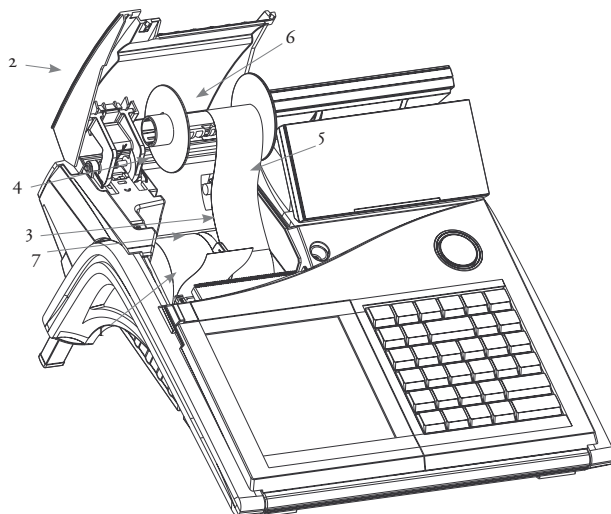
Switching into the “T” mode:  

„STANDBY“ When the cash register is not



Exit the “STANDBY” mode by pressing the (Mode) button. In case the cash-register is supplied from external power supply then stand by mode is not called.

Paper ribbons installation




< Figure 2.6
Procedure for installing
paper tapes into Euro-2100
ECR (numbers match fi-
gure 2.6):

The Euro-2100 cash register uses thermal paper ribbons of 38 mm width. The right one (a front view on the cash register) is designed for printing of customer receipts and the left one for printing the journal.

Use only rolls of good quality paper with the maximum diameter of 55 mm. To ensure proper cash register operation, make sure that the printing saturation is correct. If any problems occur, contact your local authorized dealer of Euro-2100.

Paper ribbons installation procedure for Euro-2100:

Press the control button (1) to flip the tape cover (2) open. Take out the paper tape separator (3) along with empty paper reel cores, remove them and install new paper tape reels. Insert the separator with installed tapes into the second rear cover (4). Evenly trim the tapes using scissors. The tapes' ends must not contain dirt or glue residue. Insert the journal tape into the printer, the printer will load the tape automatically into its mechanism. Then place the end of journal tape (5) into the winding reel (6) and rotate the winding reel in the winding di-

rection several times. Make sure that the tape holds firmly in the winding reel. Place the winding reel into the second rear cover (4) in such way that it will be lightly stretched. Take the receipt tape (7) and load it into the printer, the printer will load the tape automatically. Close the tape cover (2). Finally, press button  to feed necessary amount of tape or cut off any surplus tape.

Recommendation: If any of the tapes wrinkles or jams during loading, use the printer head lever to lift the printing head and take out the jammed tape. Fix the tape, lower the printing head and try re-loading the tape(s) again.

Usage and storage of thermal paper

The Euro-2100 printer prints on paper 38 mm wide.

Journal paper storage recommendations:

- do not expose thermal paper to direct light,
- store at temperature not higher than 40°C,

Calculator feature description

Implemented functionality

The built-in calculator is able to perform these operations on real numbers:

- addition
- subtraction
- multiplication
- dividing

Maximum precision is 13 valid numbers.

The maximum range overflow ($\pm 1,79 \times 10^308$) error is not handled.

Keyboard operation

You can toggle the calculator functionality of the ECR using the [CALC] (key (a special round button on the top edge of the keyboard).

Individual operations are realised using following keys:

- PLU – addition
- DPT – subtraction
- MULT – multiplication
- MODE – dividing
- TOTAL – displays result
- CLEAR – initialises the calculator (ECR enters the state before calculator has been used)

Entering and editing numbers:

- [1...9] – enter number
- [PERIOD] – enter decimal separator
- [EAN] – invert sign (positive sign is not displayed)
- [VOID] – deletes the last entered number

It's possible to enter up to 14 digit signed number, including decimal separator. Single sign (i. e. sign entered without a number) is ignored. The calculator retains the last performed operation and it could be repeated using the TOTAL key.

Calculator display

After the ECR is switched into calculator mode, the bottom display row shows „Calculator“.

Entered numbers are shown in the top display row; result is displayed similarly.

The current operation sign (+, -, *, /) is displayed in front of the „Calculator“ text in the bottom row.

Examples:



Display shows after pressing 16 + 45:



Display shows after pressing TOTAL:



Display shows after pressing TOTAL:


While the ECR is in the calculator mode, the customer display remains empty.

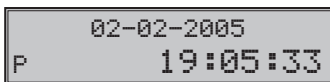
Programming manual


Initialisation

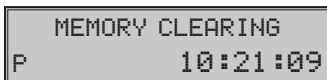
Before putting the cash register into operation, it must be initialised. The cash register initialisation clears all programmed data and will return the ECR to default settings. Only following data will be preserved: grand totals, report numbers (Z1 and Z2) and value of system flag no. 1. ECR initialisation is possible only if daily and periodical reports have been issued in "Z" mode.


Initialisation procedure:

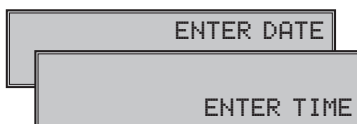
- 1) Turn the cash register on and press  to enter "P" mode.



- 2) Press  button. The "Memory clearing" label appears on the display.



- 3) To confirm the initialisation, press the  (SUBTOTAL) button. The ECR printer prints "Memory clearing" and it begins the initialisation.
- 4) After initialisation enter the date (DDMMYY) and time (HHMM).




Recommended procedure for Euro-2100 programming

The recommended procedure for ECR programming advises an user to programme the ECR in the following order: 1) system

flags, 2) tax levels, 3) receipt logo, 4) cashiers, 5) function texts, 6) departments, 7) sale units and finally 8) article items (PLUs).

Flags programming


Prior to programming the system flags, it is recommended that this subchapter is carefully studied and clearly understood.

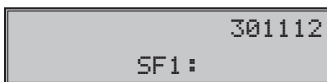
Note: If a key is used for two functions, choose the function in a lower part of key by pressing the key. To choose the function in the upper part of a key, hold the  (SHIFT) key and press the particular key.





Initial programming of system flags

The system flags represent settings that have primary influence on the proper performance of ECR (number of decimal places, rounding, date, time, etc.).

System flags programming procedure:

- 1) Switch the cash register into "P" mode by pressing . Notification "PROGRAMMING MODE P" appears on the display. Only a cashier authorised for the programming mode can set the ECR into "P" mode.



- 2) Press   button.
- 3) After entering flag values, store them by pressing the  (SUBTOTAL) button. The programming of the next flag follows. Continue until you have programmed all necessary flags.
- 4) Finish flags programming by pressing the  (TOTAL) button.

System flags correction

- 1) To change the setting of any of the system flags, switch the cash register into the "P" mode by pressing **[4] [MODE]**.
- 2) Enter the flag number to be edited and press the **[SHIFT] [RA] (RA)** button.
- 3) Enter desired flag value and press the **[ST] (SUBTOTAL)** button.
- 4) Print the new programmed settings by pressing the **[CH] (CHECK)** button.

- 5) Finish the programming by pressing the **[TL] (TOTAL)** button.

Printing flags values

In the programming mode, select the flags programming by pressing the **[SHIFT] [SCALE] (RA)** button. Press the **[CH] (CHECK)** button to print the flags values. It is possible to print the value of currently programmed flag by pressing the **[EAN] (EAN)** button.

Figure 3.1 >
First system
flag values.

Flag 1 – Number of decimal places, method of rounding, TAX system...

Digit	Default setting	Meaning	Valid values
1	0	System of rounding:	0 – up from 5, 1 – always up, 2 – always down, 3 –special rounding
2	0	Tax system:	0 – VAT 1 – TAX
3	2	No. of decimal places to which total price should be rounded	0 – 3
4	2	No. of decimal places to which VAT should be rounded	
5	2	No. of decimal places to which price should be rounded	
6	2	No. of decimal places to which price, VAT should be displayed	

Figure 3.2 >
Second system
flag values.

Flag 2 - TAX printing, number of logo lines, blank lines...

Digit	Default setting	Meaning	Valid values
1	1	TAX values printing	0 – TAX values not printed, 1 – TAX values printed on receipt
2	0	Date format	0 – dd-mm-yy, 1 – mm-dd-yy
3	3	No. of decimal places of amount values	0 – 3
4	2	Number of blank lines between succeeding receipts	0 – 6
5	6	Number of logo lines	
6	0	Split pricing/successive multiplication entries	0 – split pricing, 1 – successive multiplication

Figure 3.3 >
Third system
flag values

Flag 3 - Receipt consecutive number, cash register number

Digit	Default setting	Meaning	Valid values
1	0	Receipt consecutive number clearing	0 – after "Z" total (daily) report, 1 – after "Z" periodical report
2 – 3	001	Cash register number	(01 – 99)
4 – 7	0001	Receipt consecutive number	(01 – 9 999)

Flag 4 - Required operations

Digit	Default setting	Meaning	Valid values
1	1	Subtotal amount printing after Subtotal key is pressed	0 – no, 1 – yes

2	o	Required Subtotal key pressed before receipt is finished	o – not required, 1 – required
3	o	Required Credit Card number entering if paid by Credit	o – not required, 1 – required
4	o	Required customer's payment amount entering	o – not required, 1 – required

< Figure 3.4
Fourth system
flag values.

Flag 5 - Parameters of serial communication

Digit	Default setting	Meaning	Valid values
1	o	Programming of the terminal code for the bar code scanner	o – terminator CR and LF, 1 – terminator CR, 2 – terminator LF
2	3	Programming of communication speed of the bar code scanner	o – 1 200 Bd, 1 – 2 400 Bd, 2 – 4 800 Bd, 3 – 9 600 Bd, 4 – 19 200 Bd
3	1	Programming of communication speed of the PC	o – 9 600 Bd, 1 – 38 400 Bd
4	o	Communication protocol for Electronic scales	o – CAS Morcan, MARTES T, 1 – Euro scales, MARTES M, 2 – Macca K, 3 – not used
5	o	Data transmission direction in PC-ONLINE mode	o – PC transmits, 1 – PC transmits and receives
6	o	Communication protocol for payment terminal	o – communication is not allowed, 1 – Bull Amadeo, 2 – PinPad - KeyCorp


< Figure 3.5
Fifth system
flag values.

Flag 6 - Printing mode setting

Digit	Default setting	Meaning	Valid values
1	o	Printing modes without external power supply	o – normal mode, 1 – economical mode, 2 – high speed mode
2	o	Printing modes with external power supply	o – normal mode, 1 – economical mode, 2 – high speed mode
3	1	Graphical logo printing	o – no, 1 – yes
4	o	Height of printing font	o – normal font: character height of 2,5 mm, 1 – not used
5	1	Standby mode	o – standby inactive, 1 – standby after 1 min., 2 – standby after 5 min., 3 – standby after 10 min., 4 – standby after 15 min.
6	2	Stage of calculator key back-light in Calculator mode	o – off, 1 – on, 2 – blinking
7	o	Stage of calculator key back-light outside of Calculator mode	o – off, 1 – on

< Figure 3.6
Sixth system
flag values.

Flag 7 - Limit and value of the percent add-on

You can shift from limit to value programming by pressing the  (SUBTOTAL) button. The directional arrow shows either limit or value, whichever is actually programmed.

Digit	Default setting	Meaning	Valid values
Left	oo	Limit for the percent add-on entered during sale	oo–99
Right	oooo	Programmed percent add-on value (to set value of 10% enter 1 0 0 0)	oooo–9999

< Figure 3.7
Seven system
flag values..

Flag 8 - Limit and value of the percent discount


You can shift from limit to value programming by pressing the  (SUBTOTAL) button. The directional arrow shows either limit or value, whichever is actually programmed.

Figure 3.8 >
Eighth system
flag values..

Digit	Default setting	Meaning	Valid values
Left	00	Limit for the percent discount entered during sale (00% – 99%)	00–99
Right	0000	Programmed percent discount value (to set value of 15% enter 1 5 0 0)	0000–9999

Flag 9 - Time setting

Figure 3.9 >
Ninth system
flag values..

Digit	Default setting	Meaning	Valid values
1 & 2	12	Hours setting	00–23
3 & 4	00	Minutes setting	00–59

Flag 10 - Date setting

The cash register handles leap years and adjusts the number of days in each month automatically.

Figure 3.10 >
Tenth system
flag values..

Digit	Default setting	Meaning	Valid values
1 & 2	01	Day	01–31
3 & 4	01	Month	01–12
5 & 6	01	Year	00–99

Extended flags programming

In the programming mode select the bar-code flags programming by pressing   (CREDIT).

figure 3.11 >
Extended
flags values

Digit	Default setting	Meaning	Valid values
1	0	Look-up algorithm for PLUs when reading 18-digit long bar-code	0 – look-up using the entire bar-code, 1 – as option 0, but if look-up fails, the bar-code is considered EAN 13+5 and look-up ignores extension
2	0	Look-up algorithm for PLUs when reading 15-digit long bar-code	0 – look-up using the entire bar-code, 1 – as option 0, but if look-up fails, the bar-code is considered EAN 13+2 and look-up ignores extension
3	0	Printing format and storage format in PC journal if ECR reads and successfully looks up the 13+5 bar-code	0 – do not store and print anything, 1 – print and store only bar-code extension, 2 – print and store entire bar-code
4	0	Printing format and storage format in PC journal if ECR reads and successfully looks up the 13+2 bar-code	
5	0	Printing format and storage format in PC journal if ECR reads and successfully looks up bar-code with other length than 15/18 or if a PLU has been read using the PLU number that has length 15/18 and ECR database contains the same EAN code with given length (i. e. it is not considered an EAN 13+2/13+5 code)	0 – do not store and print anything, 1 – print and store entire 18-digit long code programmed for given PLU

Tax rates programming

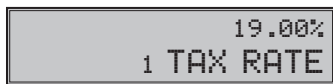
The cash register allows the use of six tax rates plus one rate without tax. Both the tax rate and its name are programmable. The seventh rate is not programmable.

A tax rate consists of two programmable data:

- 1) tax rate (0%, 19%...)
- 2) tax name (TAX, VAT, TAXABLE...)

Tax level programming procedure:

- 1) switch the ECR into programming mode "P" by pressing **[4] [MODE]**.
- 2) Press the **[SHIFT] [RF]** key. The display shows the number of programmed tax level and its rate.



- 3) Enter the tax rate without decimal point. First two numerals compose integer part of the rate, last two compose decimal part (i. e. for tax rate of 19% it is 1 9 0 0). The tax rate can be changed only after daily and periodical report have been executed in "Z" report mode. If you need to disable a specific tax level, programme its tax rate as 100 or higher.
- 4) Press the **[ST]** (Subtotal) key. Display will show label for programming the tax level name (or label).
- 5) After the tax rate programming is finished, the display will show the name of currently programmed tax level in the first display row (VAT 19%, TAX 10%...) and its number in the second display row. The tax level

name can contain up to ten standard width characters.

- 6) Enter the tax level name and press **[ST]** (Subtotal) key. For instance, if the tax level name is VAT 19%, you will enter following key sequence: **[SHIFT] [9]**, **[SHIFT] [1]**, **[SHIFT] 2 x [4]**, **[00]**, **7 x [1]**, **6 x [9]**, **4 x [7]**. Enter capital letters by pressing the **[SHIFT]** (**SHIFT**) key and the corresponding letter. You can continue to programme the remaining tax levels.
- 7) To exit the tax level programming, press **[TL]** (**Total**) key.

More details on entering texts are located at the end of this chapter.

Correction of the tax level values

- 1) Switch to the "P" mode by pressing **[4] [MODE]**.
- 2) Enter the number of the tax level you want to edit and press the **[SHIFT] [RF]** (**REFUND**) button.
- 3) Re-programme the parameters as described in above section.
- 4) You can print the newly programmed tax level values by pressing **[CHK]** (**CHECK**) key.
- 5) Finish the corrections by pressing the **[TL]** (**TOTAL**) key.

Printing of the preprogrammed tax values

To verify the programmed values, print them by pressing the **[CHK]** (**CHECK**) button in the tax programming mode. If working in another programming mode, press the **[SHIFT] [RF]** (**REUND**) key and then the **[CHK]** (**CHECK**) key. It is possible to print the rate and name of a particular tax level by pressing the **[EAN]** (**EAN**) button.

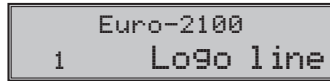
Receipt logo programming

The Euro-2100 can print up to nine lines of text at the beginning of the receipt (e. g. "Roy's Food Store", "Thank you" etc.) Euro-2100 can have on each line up to 24 normal sized/12 double sized characters.

Logo programming procedure

- 1) Switch the ECR to "P" mode by pressing **[4] [MODE]**.
- 2) Press the **[SHIFT] [EAN]** (**Po**) key.

- 3) The notification „1 LOGO LINE“ appears in the first display row and informs you that you are programming the first line of the logo and the second display row will show the currently programmed text for that row. Enter new data for the current logo line. If you mistype or make a mistake, you can delete previous characters by pressing **[C]** (**CLEAR**) key. Programmed text will be printed out just as typed in, starting from the left.



- 4) Press the **ST** (SUBTOTAL) key. The next line will appear on the display and be ready for editing.
- 5) Press the **TL** key to finish the programming of receipt logo lines.

Correction of the logo lines

- 1) Switch the ECR to "P" mode by pressing **4** **MODE**.
- 2) Enter the line number you want to correct and press **SHIFT** **EO** (PO).

- 3) Re-programme with corrected value as shown in section above.
- 4) You can print out the entire logo by pressing **CH*** (CHECK) key; print out the current line by pressing **EO** (EAN) key.
- 5) Finish corrections by pressing the **TL** (TOTAL) key.

Printing the programmed logo lines

Programmed logo lines can be printed in programming mode by pressing the **CH*** (Check) key. Print a particular programmed line by pressing the **EO** (EAN) key.

Cashier programming

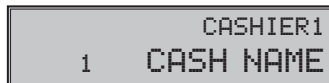
The programming of cashiers consists of three steps:

- cashier's name
- cashier's password
- cashier's authorisation

The ECR allows for up to six cashiers. This programming allows you to assign a password to each cashier, which will be used by him/her to log into the ECR and use its functions. This password will also identify the cashier on the ECR: the receipts issued by that cashier are identified by his/her name and all operations are assigned to him/her.

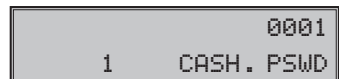
Programming procedure:

- 1) Switch the ECR to "P" mode by pressing **4** **MODE**.
- 2) Press the **SHIFT** **S** (Password) key. Display will show the current cashier number and label "NAME" in the first display row which indicates you are programming the cashier's name. Second display row contains the current cashier's programmed name.
- 3) Enter the name for the current cashier.



Cashier name can have up to ten characters. If you mistype or make a mistake while entering text, you can use a **C** (CLEAR) key to delete recent characters. See the end of chapter on hint on entering texts.

- 4) Finish the cashier name programming by pressing **ST** (SUBTOTAL) key. The ECR shows the current cashier number in the first display row, together with the label ("PASSW") that indicates programming of cashier password. Press **TL** (TOTAL) to finish the programming procedure (next steps will not run).






- 5) Enter the cashier's password. The password is composed by the up to four numerals. If you mistype during entering of the password, you can use **C** (CLEAR) key to correct your mistakes.
- 6) Finish the programming of cashier's password by pressing **ST** (SUBTOTAL) key. The ECR will then show the current cashier number in first display row along with label ("ACCESS") that indicates programming of cashier's authorisations for ECR modes. Press **TL** (TOTAL) to finish the entire programming procedure (next steps will not run).




- 7) Programme the mode access flags according to the table 3.11. If you mistype, correct






Digit	Access authority IIII
1	Access to the "X" mode:
2	Access to the "Z" mode: o—no
3	Access to the "P" mode: I—yes
4	Access to the "T" mode:

your mistakes using  (CLEAR) key. Warning: you cannot deny access to programming mode "P" for the cashier no. 1.

- 8) Press the  (SUBTOTAL) key to continue programming of the remaining cashiers; continue with step 3. If you press  (TOTAL) key, you finish the programming procedure for the cashiers.






Correction of cashiers

- 1) Switch the ECR to "P" mode by pressing .

- 2) Enter the number of the cashier you wish to correct and press   (PASSWORD) key.
- 3) Continue in the same way as when programming other cashiers.
- 4) You can print out data on all cashiers by pressing  (CHECK) key; press  key to print out data on the current cashier only.
- 5) Finish the corrections by pressing  (TOTAL) key.

<< Figure 3.11
Cashier access rights.



Printing of Cashier values




To check the programmed names and other settings, press the  (CHECK) key in the cashier programming. If in the programming mode, press the   (PASSWORD) key first and then press  (CHECK) key. Print the programmed values of the current cashier by pressing the  (EAN) key.

Function text programming


The Euro-2100 allows you to programme all the operation labels that can be displayed/printed to the receipt. The default values for all function texts are shown in the table 3.12. You can adjust all of them to your needs.

Function text programming procedure:

- 1) Switch the ECR to "P" mode by pressing .
- 2) Press the  (VOID) key. ECR will display the number of the currently programmed

- function text in the first display row and contents of that text in the second display row.
- 3) Enter new function text that could have up to 17 characters. If you mistyped, you can correct mistakes by pressing  (CLEAR) key. Details on entering texts are located at the end of this chapter.
- 4) Press  (SUBTOTAL) key to programme next available function text; continue with step 3). Finish the function text programming by pressing  (TOTAL) button at any time.

Correction of function texts

- 1)Switch the ECR to "P" mode by pressing .

< Figure 3.12
Default function texts.



Text mo.	Default setting	Description
1	CASH	Cash payment denomination
2	CHECK	Check payment denomination
3	CREDIT	Credit card payment denomination
4	CHANGE	Change value denomination
5	REFUND	Refund value denomination
6	VOID	Void denomination
7	RA	Received on account denomination
8	PO	Paid out denomination
9	TOTAL	Total value
10	DOCUMENT NUMBER	Document number

- 2) Enter the number of text to be corrected and press **[RF]** (**VOID**) key.
- 3) Continue in the same way as when programming function texts (consult section above).
- 4) Print out all programmed function texts by pressing **[CH^{FA}]** (**CHECK**) key; print the currently edited function text by pressing **[EAN]** (**EAN**) key.
- 5) Correction of function texts is finished by pressing **[TL]** **[nn]** Total button.

Printing function texts setting

To check the programmed function texts, press **[CH^{FA}]** (**CHECK**) key in function text programming mode. If in programming mode, press **[RF]** (**VOID**) key first and then the **[CH^{FA}]** (**CHECK**) key. Print the value of a particular function text by pressing **[EAN]** (**EAN**) key.

Departments programming

The Euro-2100 cash register has 30 departments (DPT) available. Each department has three basic components:

- 1) Price
- 2) Department flag
- 3) Name

Programming procedure:

- 1) Switch the ECR to “P” mode by pressing **[4]** **[MODE]**.
- 2) Press the **[DPT]** (**DPT**) key. The current department number and the label (“**PRICE**”) appear in the first line on the display to indicate department price programming. The programmed price appears in the second display row.





- 3) Enter the new department price (maximum eight digits, including decimals). If you mistype, you can correct your mistakes by pressing **[C]** (**CLEAR**) key.
- 4) Press **[ST]** (**SUBTOTAL**) key to continue with programming the flags for the current department. The display shows current department number in the first display row together with label (“**FLAG**”) to indicate department flag programming. The value of department’s flags are shown in the second display row. Press **[TL]** (**TOTAL**) key to stop department programming (next steps will not run).






- 5) Enter the department flags for the current department according to the table 3.13. If

Figure 3.13 >
Cashier
access rights






Digit	Default setting	Meaning	Valid values
1	0	Assigning VAT level to a department	0 – no tax , 1 – tax level 1, 2 – tax level 2, 3 – tax level 3, 4 – tax level 4, 5 – tax level 5, 6 – tax level 6
2	0	Type of department	0 – normal, 1 – single item department
3	0	Negative department	0 – no, 1 – yes
4	3	Sale feature	0 – sale forbidden, 1 – open price (manually entered price), 2 – fixed price (preprogrammed price), 3 – 1+2 (preprogrammed price or the possibility to enter a price manually)
5	8	HALO limit, maximum 8 (maximum number of digits allowed)	0–8

- you mistype, you can correct using the  (CLEAR) key
- 6) Press  (SUBTOTAL) key to continue with programming the name for the current department. The ECR display shows current department number along with the label (“NAME”) in the first display row; second display row contains the assigned tax level







- on the left and current department name on the right.
- 7) Enter the department name. If you mistype, you can correct your mistakes by pressing  (CLEAR) to delete characters. See the end of chapter for more detailed instructions on entering texts.
- 8) Press the  (SUBTOTAL) to continue department programming for next department; proceed to step 3). The programming of departments can be finished at any time by pressing  (TOTAL) key.

Correcting departments

- 1) Switch the ECR to “P” mode by pressing .
- 2)Enter the number of the department you want to adjust (1–30) and press  (DPT) key, or press the selected department button to directly choose required department.
- 3) Continue re-programming desired values as shown in the section above.
- 4) You can print out all the programmed department values by pressing  ((CHECK) key; to print out the currently programmed department, press  (EAN) key.
- 5) Finish the corrections by pressing  (TOTAL) key.

Printing department values

Check the programmed department values by pressing the  (CHECK) key in the department programming mode. If in another programming mode, press the direct button of a department or a department number and then press the  (DPT) button. Afterwards press the  (CHECK) button. To print the settings of currently programmed department, press the  (EAN) key.





Sale unit programming

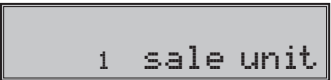
Sale unit can be assigned to each PLU and represents the unit in which the PLU is sold. It is possible to programme eight sales units of up to three characters each. Table 3.14 shows the default settings for sale units; you can adjust these defaults to your needs.



Digit	Message	Digit	Message
1		5	m
2	PCS	6	m²
3	kg	7	btl
4	l	8	pkg

Figure 3.14
Default
sale units.




Sale units programming procedure:

- 1) Switch the ECR to “P” mode by pressing .
- 2) Press the   (SURCHARGE) key. The ECR display shows the current sale item number and its name in the second row.
- 3) Enter the text for the current sale unit (up to three characters). You can correct mistypes by pressing  (CLEAR) key and/or



- consult the section on entering texts at the end of this chapter.
- 4) Press  (SUBTOTAL) key to continue sale units programming with the next sale unit. Finish sales unit programming at any time by pressing the  (TOTAL) key.

Correcting programmed sale units

- 1) Switch the ECR to “P” mode by pressing .
- 2) Enter the number of the sales unit you want to modify and press   (SURCHARGE) key.

- 3) Continue the programming as described in the previous section (see above).
- 4) You can print out all programmed sale units by pressing **CH*** (**CHECK**) key; to print the currently programmed sale unit, press **IAN** (**EAN**) key.
- 5) Finish the corrections by pressing **TL** (**TOTAL**) key.

If you want to check the settings of the sale units, press the **CH*** (**CHECK**) key in the sale unit programming mode. If the ECR is in the root programming mode, first press the **SWP** **CH*** (**Surcharge**) key, then the **CH*** (**CHECK**) key. For a printout of the current sale unit, press the **IAN** (**EAN**) key.

Printing sale unit settings

Article items (PLU) programming

The article item is referenced as PLU (Price Look-Up) throughout this document. The Euro-2100 cash register has up to 8 000 PLUs available. The PLU has five basic programmed components:

- 1) PLU price
- 2) PLU 1st flag
- 3) PLU 2nd flag
- 4) PLU name
- 5) PLU bar code

If you set up an article item as descriptive, that item shows its name when sold, but it doesn't include any sale data (its quantity/value doesn't count in quantity/value of sold items).

Programming procedure:

- 1) Switch the ECR to "P" mode by pressing **4** **MODE**.
- 2) If you wish to programme a PLU with a specific number, enter that number now and press **PLU** (**PLU**) key. If you don't supply any number, the ECR starts programming from the first PLU. The ECR display shows the current PLU number and label ("PRICE") that indicates programming of the PLU's price.



- 3) Enter the price for the programmed PLU; maximum eight numerals, including decimals. You can delete mistyped numerals using **C** (**CLEAR**) key.
- 4) Press **ST** (**SUBTOTAL**) to continue with programming of first group of PLU flags. The display will show current PLU num-

ber and label ("FLAG1") in the first display row and current value of the group of flags in the second row. Press **TL** (**TOTAL**) to leave PLU programming (next steps will not run)



- 5) Enter the data for the first group of PLU flags; orient yourself by the table 3.15. Correct mistypes by using **C** (**CLEAR**) key. PLUs within 1001–1015 mustn't be assigned to a negative department.
- 6) Press **ST** (**SUBTOTAL**) to continue with programming of second group of PLU flags. The display will show current PLU number and label ("FLAG2") in the first display row and current value of the group of flags in the second row. Press **TL** (**TOTAL**) to leave PLU programming (next steps will not run)



- 7) Enter the data for the second group of PLU flags; orient yourself by the table 3.15. Correct mistypes by using **C** (**CLEAR**) key. No PLUs can link to the PLUs within 1001–1015.
- 8) Press **ST** (**SUBTOTAL**) to continue with name programming for the current PLU. The display shows current PLU number and label ("NAME") in the second display row and the assigned tax level (left) and name (right) in the first display row. Press **TL** (**TOTAL**) to finish the PLU programming (next steps won't run).

Digit	Default setting	Meaning	Valid values
1	0	Assigning a VAT level to the PLU	0 – no tax, 1 – tax level 1, 2 – tax level 2, 3 – tax level 3, 4 – tax level 4, 5 – tax level 5, 6 – tax level 6
2,3	01	Assigning a department to the PLU	1 – 30
4	0	Descriptive PLU	0 – no, 1 – yes
5	0	Type of PLU	0 – normal PLU, 1 – single item PLU
6	0	Sale feature	0 – PLU forbidden, 1 – open price (manually entered price), 2 – fixed price (preprogrammed price), 3 – 1+2 (pre-programmed price or the possibility to enter a price manually)

< Figure 3.15
First group of PLU flags.



- 9) Enter the PLU name/description, maximum 20 characters (or 10 double width characters). Consult end of this chapter on how to enter texts. You can correct mistypes by using **[C]** (CLEAR) key.
- 10) Press **[ST]** (SUBTOTAL) key to continue with programming of the bar-code for the current PLU. The display shows the current PLU number and label ("BARCODE") in the first display row and the currently assigned bar-code in the second row. Press **[TL]** (TOTAL) to finish the PLU programming (next steps won't run).
- 11) Enter the PLU bar-code either using the keyboard or using a scanner (scanner has to be connected to ECR and properly configured). You can correct mistypes using **[C]** (CLEAR) key.
- 12) Press **[ST]** (SUBTOTAL) key. If you entered a bar-code that is already assigned to a PLU, the ECR will hint you on this by displaying "BARCODE" along with the PLU number of the PLU that bar-code is assigned to.
- 13) After the bar-code has been successfully assigned, the ECR continues with programming of next PLU; proceed to step 3). Press **[TL]** (TOTAL) to finish the PLU programming. After the PLU programming is over, the ECR will sort all the bar-codes and indicates that it's doing so on its display. If

Digit	Default setting	Meaning	Valid values
1, 2	00	Assigning the sale of another PLU to the sale of an actual PLU (linked PLU)	00 – no linked PLU, 01 – PLU No. 1001 is linked, 02 to 15 – PLUs 1002-1015 are linked
3	1	Sales unit assigning	1 – The first sales unit assigning, 2 to 8 – assigning the sales unit 2 – 8
4	0	PLU stock information on PLU report	0 – no, 1 – yes
5	1	PLU sale possibility even if stock is negative	0 – no, 1 – yes
6	1	Split pricing possibility	0 – no, 1 – yes
7	8	HALO limit, maximum 8 (maximum number of digits allowed)	0 – 8

< Figure 3.16
Second group of PLU flags.

BAR CODE DUPLICATE
3 PLU barcod

3. PLU
3 PLU barcod

the ECR is disconnected from power, it will resume sorting after turned on again.

CODE SORTING

Setting up the bar-code scanner

To secure a reliable functioning of bar code scanning it is important to program the scanner correctly and connect it properly to the cash register. Parameters of the bar code scanner setting:

- eight data bits
- none parity
- one stop bit
- transmission speed and terminal character is according to setting of the fifth register system flag

The default setting of flag no. 5 corresponds to Metrologic bar code scanners (MS 951, MS 6720, MS 7100, MS 860, MS 6130 and MS 9520). All you have to do is read the following bar codes from the scanner programming manual:

- 1) Enter/Exit
- 2) Recall Default
- 3) Enter/Exit

The ECR is able to handle bar codes containing data for product weight. The format is the following: PP XXXX V MMMMM K; PP - prefix of bar code (28 or 29), XXXX - PLU number (0001-2400), V - scales check digit, MMMMM - product weight (3 decimal digits) and K - bar code check digit.

Quick PLU price programming

If you need to change only the prices of several PLUs, you can easily do it by the following procedure:

- 1) Switch the ECR to "P" mode by pressing .
- 2) Enter the PLU number and press the (PRICE) button. If you don't enter any number, the ECR will start from PLU no. 1. The PLU number and the label ("PRICE") appear in the first display row, current PLU price is displayed in the second row.

0.00
1 PLU price

- 3) Enter the new price (maximum eight digits including decimals).
- 4) Press (SUBTOTAL) key to continue in the price programming of the next PLU; proceed to step 3). Press (TOTAL) key to finish the quick PLU price programming.

Quick PLU stock programming

The cash register also records stock information for each PLU. The PLU stock information can be changed to another value directly, or you can alter stock by operations in the registration mode.

- 1) Switch the ECR to "P" mode by pressing

- 2) Enter the PLU number and press the (SCALES) key. If you didn't enter any number, the ECR will start from PLU no. 1. The display shows current PLU number and label "STOCK" in the first display row and the current stock for that PLU in the second row.

0.000
1 PLU stock

- 3) Enter stock value (up to nine digits, to three decimal places) and press:
 - (SUBTOTAL) key to apply the entered number as the new stock value,
 - (SURCHARGE) key to add the entered number to the current stock or
 - (DISCOUNT) key to subtract the entered number from the current stock.

Maximum stock value is 999,999.999. If you enter integer amount, enter the number and just press $\frac{\square}{\square}$. After pressing any of the above three keys, the ECR will continue with programming of the stock for the next PLU.

- 4) Press $\frac{\text{TL}}{\text{TL}}$ (TOTAL) to finish the quick PLU stock programming.

Correction of programmed PLUs

- 1) Switch the ECR to "P" mode by pressingw $\frac{4}{\text{MODE}}$.
- 2) Enter the PLU number and press the $\frac{\text{PLU}}{\text{PLU}}$ (PLU) button. You can analogously use the bar-code scanner: if you are outside PLU name programming, scanning the bar-code will jump to the said PLU.
- 3) Continue programming the PLU values as described in the relevant section.

- 4) You can print out all programmed PLUs by pressing $\frac{\text{CH}^{**}}{\text{CH}^{**}}$ (CHECK) key or you could print out the currently programmed PLU by pressing $\frac{\text{EAN}}{\text{EAN}}$ (EAN) key.
- 5) You can jump to any PLU using the procedure in step 2). Press $\frac{\text{TL}}{\text{TL}}$ (TOTAL) key to finish correcting the PLUs.

Printing the programmed PLUs

To verify programmed values, print them by pressing the $\frac{\text{CH}^{**}}{\text{CH}^{**}}$ (CHECK) key in the PLU programming mode. If the cash register is in root programming mode, press the $\frac{\text{PLU}}{\text{PLU}}$ (PLU) key and then the $\frac{\text{CH}^{**}}{\text{CH}^{**}}$ (CHECK) key. Only PLUs that have been programmed will be printed. It is possible to print the programmed value of a particular PLU by pressing $\frac{\text{EAN}}{\text{EAN}}$ (EAN) key.

Programming the euro currency

The Euro-2100 allows you to use the euro currency. Because of the stage of the euro currency implementation, it is also possible to register in the national currency (stage no. 1 and no. 2) or in a foreign currency (stage no. 3). Registration with the euro is divided into four stages:

Stage without euro currency

The cash register works without the Euro. All transactions are performed in the national currency.

First euro currency stage

In the first euro stage the master currency is the national one, the secondary currency is the euro. The customer can pay either in the national currency or in euro. Going back to the stage without euro isn't possible without resetting the ECR. Call your service technician.

Procedure for entering the first euro stage:

- 1) Switch the ECR to "P" mode by pressing $\frac{4}{\text{MODE}}$.
- 2) Enter the code by pressing $\frac{2}{\text{ST}} \frac{0}{\text{ST}} \frac{0}{\text{ST}} \frac{1}{\text{ST}} \frac{\text{ST}}{\text{ST}}$.
- 3) Enter the acronym for the national currency (three characters maximum) and press $\frac{\text{ST}}{\text{ST}}$ (SUBTOTAL) key.

1EUR=1GBP
Curr. rate

- 4) Enter the exchange rate for euro (eleven digits maximum, with four decimals); minimum rate is 0.000 1 and maximum is 10,000. Press $\frac{\text{ST}}{\text{ST}}$ (SUBTOTAL) key.
- 5) Enter the currency flags (two digits). First digit determines to how many decimal places amount in euro will be displayed. Second digit determines to how many decimal places will the price in euro be rounded.

After programming, the information on transition into first stage of euro currency is displayed. The same information is also printed out along with information on values entered during the transition.

During the first euro stage the actual exchange rate can be set by the following procedure:

- 1) Switch the ECR to "P" mode by pressing $\frac{4}{\text{MODE}}$.
- 2) Press the $\frac{\text{S}^?}{\text{S}^?}$ (DRAWER) key.
- 3) Enter the current euro exchange rate and press $\frac{\text{ST}}{\text{ST}}$ (SUBTOTAL TOTAL) key sequence.

Second euro currency stage

In the second euro currency stage the master currency is euro, the secondary one is the national

onal currency. The customer can pay either in euro or in the national currency. ECR grand totals will be erased by transition into second stage. The transition is possible only if daily and periodical report in "Z" mode are performed. Reversal into first euro currency stage is impossible without resetting the ECR. Call your service technician.

Procedure for entering the second euro currency stage:

- 1) Switch the ECR to "P" mode by pressing .
- 2) Enter the code by pressing .
- 3) Enter the exchange rate for euro (eleven digits maximum, with four decimals); minimum rate is 0.000 1 and maximum is 10,000. Press (SUBTOTAL) key.

After programming, the information on transition into second stage of euro currency is displayed. The same information is also printed out along with information on values entered during the transition.

During the second euro stage the actual exchange rate can be set by the following procedure:

- 1) Switch the ECR to "P" mode by pressing .
- 2) Press the (DRAWER) key.
- 3) Enter the current euro exchange rate and press (SUBTOTAL TOTAL) key sequence.

Third euro currency stage

The master currency is the euro, the secondary currency is any foreign one. The customer can pay either in euro or in the secondary foreign currency. Reversal to second euro stage is not possible without resetting the ECR. Call your service technician.

Procedure for entering the third euro currency stage:

- 1) Switch the ECR to "P" mode by pressing .
- 2) Enter the code by pressing .
- 3) Enter the acronym for the secondary foreign currency (three characters maximum) and press (SUBTOTAL) key.

- 4) Enter the exchange rate for euro (eleven digits maximum, with four decimals); minimum rate is 0.000 1 and maximum is 10,000. Press (SUBTOTAL) key.
- 5) Enter the currency flags (two digits). First digit determines to how many decimal places amount in secondary currency will be displayed. Second digit determines to how many decimal places will the price in secondary currency be rounded.

After programming, the information on transition into third stage of euro currency is displayed. The same information is also printed out along with information on values entered during the transition.

During the third euro stage the actual exchange rate can be set by the following procedure:


- 1) Switch the ECR to "P" mode by pressing .
- 2) Press the (DRAWER) key.
- 3) Enter the secondary currency acronym (up to three characters) and press (SUBTOTAL) key.
- 4) Enter the current euro exchange rate and press (SUBTOTAL) key.
- 5) Enter currency flags (see above) and press (SUBTOTAL TOTAL) key sequence.

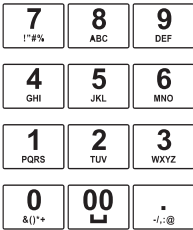
Entering texts into ECR

The numerical keys are used in text programming (logo, PLU names, cashier names etc.). There are numbers in the upper part of the keys and letters and other characters are in the lower part. In national versions, all letters and characters of the alphabet are on the keys. To enter a capital letter hold the (SHIFT) key and press the relevant key. For instance, enter letter "a" by simply pressing the key, letter "F" by holding and pressing the key thrice , number "5" by pressing the key four times, to get the space character press .

Characters that are not printed on the keys are
 „“ (2 ×), „” (3 ×), „<“ (4 ×), „>“ (5 ×), „=“ (6 ×), „~“ (7 ×), „\$“ (8 ×).

If you want to print a double-spaced character, press the key before each double-width character. The double-width character is displayed as space on the ECR display. If the programmed text string has characters which

are on the same key, press the particular key as needed, wait until a full character appears on the display, and then press the key again. If there are successive characters that belong to different keys, simply press the buttons in order without waiting. Mistakes caused when entering characters can be corrected by a  key to clear the incorrect characters and continue.






Numeric keys

< Figure 3.1
Keyboard
layout.



Programming of programmable keyboard keys

This procedure describes how to programme the programmable ECR keys. An individual key could be programmed with arbitrary keystroke sequence (function keys, up to 16) that will be generated when the programmed key is pressed in the future.


The programming of keys starts in programming mode. Press the key you wish to programme.



1. The display shows the ID number of programmable key, the label „KEY NAME“ and the current value assigned to that key.
2. Enter a new name and confirm by pressing the  (Subtotal) key. If you press  (Subtotal) key without entering anything, you just confirm the previous assigned value. When you press  (Total), the key programming procedure ends.
3. If you have changed name for the programmed key, the ECR will update its settings and print the information on key name change on the receipt (ID number of programmed key and the data on changed parameter -- label „Key name“ and its newly programmed value).
4. The display will then show the number ID of the programmable key, information label for the function programming „01. Function“ and text description of the current key function.
5. Press „MULTIPLY“ key to enter the key programming mode. The display will ask you to press a key. By pressing a function key (any key from the right part of the keyboard), you'll assign its value to the programmed key. Keep pressing to add

further function keys to the programmable sequence or press the currently programmed key to finish programming and assign the programmed function sequence to that key. The ECR will update the key definition and print the change information messages to both receipt and journal (this information includes programmed key ID number, record type „01.Key“, info label on function programming and its number „01. Function“ and the programmed function sequence). The ECR then continues with programming of next key, or goes to the first key if the currently programmed key was the last one.

6. If you didn't enter the key programming mode, then you can press  (Subtotal) to confirm the current value and proceed to the next key (or the first key if you were on the last key) and the programming procedure continues again with step 1.
7. Press  (Total) button to exit the programming mode.


Deleting the key function

You can delete function sequece assigned to a key if you press  (Void) key during step 4 of the programming procedure.

The display will show that you are about to delete the function sequence assigned to a key and awaits a confirmation. Press  (Void) key to delete the value or press  (Subtotal) to cancel the deletion. When you cancel the deletion you can proceed with programming procedure as usual. If you decide to confirm deletion, the


ECR will delete the assigned function sequence assigned to that key and prints the information on the deleted function (this information includes programmed key ID number, record type „01.Key“, info label on function programming and its number „01.Function“ and the keyword „deleted“). The programming procedure then continues normally.

Printing of the programmed key name

The name of the programmed key will be printed if you press  (EAN) key during step 1 of the programming procedure.


The ECR will print to both receipt and journal following information on the key: ID number of the programmed key and record type „01.Key“, parameter label „Key name“ and current value of that parameter.

Printing of the programmed key function

The name of the programmed key will be printed if you press  (EAN) key during step 4 of the programming procedure.

The ECR will print to both receipt and journal following information on the key: ID number of the programmed key and record type „01.Key“, parameter label „Key name“ and current value assigned function sequence.

Printing the settings for all keys

You can print the setting for all ECR key if you press  (Cheque) key in either step 1 or step 4 of the programming procedure.

The display will show „Keyboard prog.“ label and the same will be printed to both receipt and journal. For each key, the ECR will print:


- number ID and record type: „01.Key“
- parameter label „Key name“ and the name of the current key
- for each function in the current key's assigned function sequence will print number and label „1.Fucntion“ and the current value of that function and the programming of the keys finishes.

Operation in registration mode

The functions that are described in the following chapters are used in the registration mode. All financial transactions are stored in this mode.

If the cash register allows you to use the training mode, you can try the following functions in the training mode first (sales data are not stored in the memory).

Recommended procedures at the beginning of the day

- | | |
|---|--|
| 1) Check if there is enough paper on the printer roll for the day. Insert a new paper roll, if necessary.
2) Print out an "X" report and make sure that: <ul style="list-style-type: none"> a) date and time are correct, | <ul style="list-style-type: none"> b) a daily report was executed. 3) Check whether there is enough cash in drawer.
4) Register the initial cash put into the drawer by pressing the  (RA) key. |
|---|--|

Printing modes

The Euro-2100 cash register allows you to choose a printing mode according to two basic criteria: printing speed and power consumption. One font is included in the Euro-2100; its height is 2.5 mm.

There are three printing modes in Euro-2100:


- 1) *Normal* normal printing saturation, normal power consumption. This mode is set as default.
- 2) *Economical* printing saturation is normal, the printing speed is a little bit lower than normal. Power consumption is lowest in this mode. This mode allows the longest possible use of the cash register without an external power supply.

- 3) *High speed* printing saturation is normal, printing speed is much higher than normal. Power consumption is highest in this mode. This mode takes advantage if sales cadence is high. The discharge of the internal lead-acid accumulator is much higher than in normal mode, so that the cash register can work without external power supply less time than in normal mode.

Programme the sixth system flag to set up the printing modes.

If the cash register is not powered from an external power source (power adapter, car battery...), printing saturation may be a little lower, depending on the charge of the internal accumulator.

Status and functions required at the beginning of registration

If a key is used for two functions, choose the function in the lower part of the key by simply pressing the key and choose the function in the upper part of key by holding the  (SHIFT) key and pressing the key.

Error warning: the CLEAR key

If a function key is used incorrectly or the registration range is exceeded, the machine issues an error beep and an error message appears on the display. To recover and correct the condi-

tion, simply press the **[C]** (CLEAR) key. The error code is cleared from the display. Then enter the correct function or amount.

Cashier log in: the Password key

The cash register can assign a secret identification number (password) for up to six cashiers. Cashier passwords, as well as names, are programmed in the programming mode. To use the cashier identification function, enter the numeric password and press the **[SHIFT] [P]** (PASSWORD) key. For extra security, press the **[SHIFT] [P]** button before the password entry. Display will show a "PASSWORD" label. The entered password numbers are not visible on the display at this time. If an incorrect password is entered, the register beeps twice and remains locked. Enter the correct number and press the **[SHIFT] [P]** (PASSWORD) key to unlock the cash register. The password protection prevents unauthorised use of ECR. If the cashier's name has been programmed, it will be printed in the receipt header area after the cashier log in.

Cashier log out: the (Password) key

If the cash register has been protected from unauthorised use, the cashier should log out by pressing the **[SHIFT] [P]**. (PASSWORD) key after finishing registration. Display shows the "PASSWORD" label and the cash register is locked until the correct password is entered and the **[SHIFT] [P]** (PASSWORD) key is pressed. When the cash register is locked, registration cannot be performed and the cash drawer will not open. This function is used when changing cashiers or when a cashier leaves the ECR.

Finalizing a transaction: Cash, Cheque, Credit keys

Pressing one of the payment keys determines the payment method (by cash, by credit card or by cheque). Finish the transaction by pressing one of the following buttons **[TL]** (CASH), **[CR⁺]** (CREDIT), **[CH⁺]** (CHEQUE).

Samples of basic registration procedures

Figure 4.1 >> 1) Switch the cash register into the "R" mode::

Sample sale receipt:
1 - receipt logo (header),
2 - ECR tax ID number,
3- taxpayer's identification,
4- weekday,
5- date, 6- receipt number and ECR number,
7- time, 8- cashier name, 9 - item (PLU) name, 10 - assigned tax level, 11 - sold quantity and value, 12 - total item sale value.

- 2) If needed, enter the password to log in.
- 3) Enter the PLU codes of the registered items.
- 4) Press the **[PLU]** (PLU) key.
- 5) Repeat step 3 and 4 for each PLU.
- 6) Press the **[ST]** (SUBTOTAL) key. Total amount of the sale (including the VAT value) appears on the display.
- 7) Announce the amount to the customer.
- 8) Enter the amount tendered by customer and press the corresponding payment button: **[TL]** (CASH), **[CH⁺]** (CHEQUE), **[CR⁺]** (CREDIT).
- 9) The cash drawer opens. When the amount tendered is greater than the amount due, the register will show the change. Otherwise your register will show the additional amount due.
- 10) Tear off the receipt and give it to your customer together with the change (if any).



1	MONGOOSE		
	Grocery Store		
2	TPN:	123456789012	
3	UN:	012345679876	
	T H A N K Y O U		
	Your receipt		
4	08.25.11	Wed.01-03-2006	5
6	01.0005	Smith	7
	Bread	A	
	1:2.40	=2.40	
8	Roast coffee	A	9
10	2:33.00	=66.00	11
	Fruit tea	A	
	1:10.20	=10.20	
	SUBTOTAL	88.20	













	TAXABLE VAT5%	78.60	
	NET VAT5%	74.86	
	VAT5%	3.74	
	NET TOTAL	74.86	
	VAT TOTAL	3.74	
	TOTAL	78.60	

	CASH	78.60	

Registration using departments

To get better information about revenue of particular items, split the articles into departments (article groups). The “department” means articles grouped in the same category (such as dairy products, pastry, alcohol etc.), or of the same tax level (VAT 16%, TAX 10% etc.). The Euro-2100 cash register enables the use of a maximum of thirty departments and, if PLUs are used as sub departments, the number increases up to 2,100.

Item registration is finished by pressing the proper department key  — . Departments are implemented so as to, after pressing a department key, the registered amount, the corresponding tax group, the maximum registration amount, a pre-programmed price and others parameters are assigned to the revenue of the department. The sale information is stored in the register memory and utilised for department reports.

Numeric keys  —  and department keys  —  are used for registration (see keyboard picture). It is possible to register through departments by entering the department number and pressing the  (DPT) key ( ,   ...). Thus, you can register any department. It is also possible to register departments 1 to 10 by pressing a department key  — .

Basic registration using departments

The ECR can be programmed to use pre-programmed price or the price entered from the keyboard during registration using departments. If both types are allowed, the cash register will use the price entered from the keyboard.








Registration using departments with price entry using keyboard

- Using the  (DPT) key









Step

Press


1.


2.

3.



4.






Department 7 A
1:27.00 =27.00
Department 10 A
1:31.20 =31.20
SUBTOTAL 58.20

TAXABLE VAT5% 58.20
NET VAT5% 55.43
VAT5% 2.77
NET TOTAL 55.43
VAL TOTAL 2.77
TOTAL 58.20

CASH 58.20







DEPARTMENT 7
1 27.00

 —  







Step

Press


1.


2.

3.



4.



Department 1 A
1:24.00 =24.00
Department 2 A
1:31.20 =31.20
SUBTOTAL 55.20

TAXABLE VAT5% 55.20
NET VAT5% 52.57
VAT5% 2.63
NET TOTAL 52.57
VAT TOTAL 2.63
TOTAL 55.20

CASH 55.20

Registration using departments with pre-programmed price

Example: The pre-programmed price for DPT 1 is 7.50 and for DPT 2 is 4.20.

- Using the **[DPT]** (DPT) key

Step	Press
1.	[1] [DPT]
2.	[2] [DPT]
3.	[ST]
4.	[TL]

Department 1 A
1,7.50 =7.50
Department 2 A
1,43.20 =43.20
SUBTOTAL 50.70

TAXABLE VAT5% 50.70
NET VAT5% 48.29
VAT5% 2.41
NET TOTAL 48.29
VAT TOTAL 2.41
TOTAL 50.70

CASH 50.70

- Using the direct department keys

DPT 6
DPT 1

←

SHIFT

DPT 10
DPT 5

Step	Press
1.	[DPT 6 DPT 1]
2.	[DPT 7 DPT 2]
3.	[ST]
4.	[TL]

Department 1 A
1,7.50 =7.50
Department 2 A
1,43.20 =43.20
SUBTOTAL 50.70

TAXABLE VAT5% 50.70
NET VAT5% 48.29
VAT5% 2.41
NET TOTAL 48.29
VAT TOTAL 2.41
TOTAL 50.70

CASH 50.70

Registering multiple items using departments

It is not necessary to enter the price repeatedly if more than one of the same item are being sold. After entering the unit price, just press the corresponding DPT key repeatedly for the number of items sold.

- Using the direct department keys

DPT 6
DPT 1

←

SHIFT

DPT 10
DPT 5

Step	Press
1.	[3] [1] [2] [0] [DPT 7 DPT 2]
2.	[DPT 7 DPT 2]
3.	[DPT 7 DPT 2]

Department 2 A
1,31.20 =31.20
Department 2 A
1,31.20 =31.20
Department 2 A
1,31.20 =31.20

- Using the **[DPT]** (DPT) key)

Step	Press
1.	[3] [1] [2] [0] [PRICE] [1] [6] [DPT]
2.	[DPT]
3.	[DPT]

Department 16 A
1,31.20 =31.20
Department 16 A
1,31.20 =31.20
Department 16 A
1,31.20 =31.20

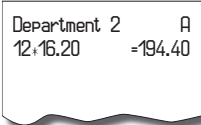
Multiplying items during registration using departments

- Multiplication of items with price entered via keyboard

The customer buys 12 pieces of the same items at 16.20:







Step	Press
1.	[1] [2] [⊗]
2.	[1] [6] [2] [0] [DPT 7 DPT 2]

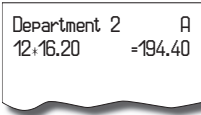
resp. **([1] [6] [2] [0] [PRICE] [2] [DPT])**



- Multiplication of items with pre-programmed price

Example: The customer buys 12 pieces of the same item with pre-programmed price of 14.20:

Step	Press
1.	  
2.	
resp.	( )




















This feature helps when you need to enter a large amount of items or you need to enter quantities that contain decimals (1.5, 0.125, etc.). Multiplication of numbers with a decimal point is often used for weighed items (meat, vegetables, salads, etc.) where the unit price is known (e. g. for 1 lb, for 1 litre, etc.). The largest allowed multiplicand is 9,999.

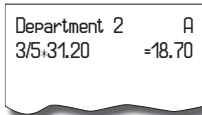
Registering fractions of items using departments

The cash register can be programmed for registration of split prices. This functionality is programmed by setting the second system flag, digit no. 6 to 0.

- Fractional entry with entering the price via keyboard









Example: The price is determined for a packing that includes five pieces of the item (e. g. a box of processed cheese). The customer buys only three pieces, paying three fifths of the price of the whole box.

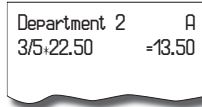
Step	Press
1.	 
2.	 
3.	     
resp.	(      )



- Fractional entry with pre-programmed price

Example: The price is determined for a packing that includes five pieces of the item (e. g. a box of processed cheese). The customer buys only three pieces, paying three fifths of the price of the whole box.

Step	Press
1.	 
2.	 
3.	 
resp.	( )




















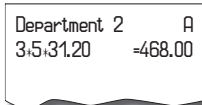
Double multiplication of items during registration using departments

The cash register can be programmed for double price multiplication. The function is practical, for example, when entering a sale of items sold by area (square metres). This function must be programmed by setting the second system flag, digit no. 6 to 1.

















- Double multiplication with entering the price via keyboard

Example: The price is determined for a square metres. Your customer buys a 3 by 5 metres piece.

Step	Press
1.	 
2.	 
3.	     
resp.	(      )



- Double multiplication of items with pre-programmed price
- Example: The pre-programmed price is 32.00 determined for a square metre. Your customer buys 3 by 5 metres.
- key, the item is automatically registered, the sale is automatically finished and the cash drawer is automatically opened. This group is called a single item sale group. In the following example, DPT 4 is programmed with the price of 5.50.


Step	Press	Step	Press
1.	 	1.	   ( )
2.	 		 
3.	 		1*27.00 =27.00
resp.	(  )		TAXABLE VAT5% 27.00
			NET VAT5% 22.70
			VAT5% 4.30
			NET TOTAL 22.70
			VAT TOTAL 4.30
			TOTAL 27.00
			CASH 27.00

Single item sales using into departments

Some services often sell a single item (for example, cigarettes). To simplify the sale of such items, it is possible to programme the price into a department and set it up as single item sale department. Then, by pressing the department

If other transactions have already taken place before a single item sale, the transaction is not finalised and it is possible to continue with registration of other items.







PLU registration

Articles have assigned codes (PLU numbers). For example, RAMA butter – PLU no. 5, Skimmed milk – 23, Rum 0.5 l – 189, etc. Data concerning the articles (name, price, assignment to the department, etc.) are programmed in the cash register memory and linked to a particular PLU number. Entering the PLU number and pressing the  (PLU) key looks up the data in the register memory and registers it automatically.

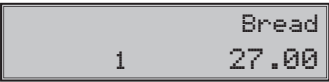
PLU registration allows for storing of information about the sale of each particular item, printing the names of articles automatically on the receipt, printing the unit price automatically and assigning the transaction to a department. It also prevents mistakes in keyboard registration. The name of each item on the receipt satisfies the customer for correctness of items purchased. By automatically calling programmed data from the cash register memory, faster customer service and greater accuracy is provided.

PLU registration makes it possible to get a clear overview of the sale of each particular item. A personal computer and a bar code scanner can supplement the advantages of PLU registration.

Basic PLU registration

Step	Press
1.	 
2.	 
3.	
4.	

Bread	A
1*27.00	=27.00
Butter	A
1*31.20	=31.20
SUBTOTAL	58.20
TAXABLE VAT5%	58.20
NET VAT5%	55.43
VAT5%	2.77
NET TOTAL	55.43
VAT TOTAL	2.77
TOTAL	58.20
CASH	58.20



Multiplication in PLU registra-
tion

Example 1: The customer buys twelve pieces of the same PLU with the price of 21.40 each.

Step	Press
1.	<div>1 2</div>
2.	<div>1 PLU</div>

Bread

12 21.40

A

=256.80

Example 2: The customer buys twelve pieces of the same PLU with entering the price of 20.50 via keyboard.

Step	Press
1.	<div>1 2</div>
2.	<div>2 0 5 0 PRICE</div>
3.	<div>1 PLU</div>

Bread

12 20.50

A

=246.00

This feature helps when you enter a large quantity of items or need to enter quantities that contain decimals (1.5, 0.125; etc.). Multiplication by numbers with the decimal part is often used by the weighed items (meat, vegetables, salads etc.) where the unit price is known (e. g. for 1 lb or for 1 litre, etc.). The maximum multiplicand is 9,999.

Individual PLU registration

In some services, just a single item is often sold, e.g. cigarettes. To simplify the sale of such items, it is possible to program a single sale PLU flag (see PLU programming). By entering the PLU number and the v (PLU) key, the item is registered, the sale is automatically finished

and the drawer opened. This PLU is called a single sale PLU. PLU 4 is programmed with price 30.80 in the example.

Step	Press
1.	<div>4 PLU</div>

Cigarettes

1 70.00

A

=70.00

TAXABLE VAT5% 70.00

NET VAT5% 66.67

VAT5% 3.33

NET TOTAL 66.67

VAT TOTAL 3.33

TOTAL 70.00

CASH 70.00

Note: If other transactions have already been performed before the single item sale, then that sale does not complete the transaction. It is possible to continue registering of other items.

Overriding the pre-programmed
PLU price

Either the pre-programmed price or a price entered from the keyboard may be used for PLU registration. If both methods are possible, the cash register uses the price entered from the keyboard.

Example: The customer has been given a special price, different from the pre-programmed one. PLU 3 has the pre-programmed price of 21.40, but the special price is 20.50.

Step	Press
1.	<div>2 0 5 0 PRICE</div>
2.	<div>3 PLU</div>

Bread

1 20.50

A

=20.50

Fractional PLU registration

The function must be programmed by setting the second system flag, digit no. 6 to 0.

Example: The price is determined for packing including five pieces of the article (e. g. a box of processed cheese) at the price of 15.60. The customer buys only three pieces. Thus, he is to pay three fifths of the unit price of the whole box.

Step	Press
1.	<div>3</div> <div>PLU</div>
2.	<div>5</div> <div>PLU</div>
3.	<div>2</div> <div>PLU</div>

Butter

3/5*15.60

A

=9.40

Double multiplication in PLU registration

The function must be programmed by setting the second system flag, digit no. 6 to 1.

Example: The price is determined for the a square metre. Your customer buys 3 by 5 meters.

Step	Press
1.	<div>3</div> <div>PLU</div>
2.	<div>5</div> <div>PLU</div>
3.	<div>2</div> <div>PLU</div>

Linen

3.5*15.60

A

234.00

Other means of registration

Registration using bar-codes

- registration using a bar-code scanner

A bar-code scanner can be connected to the cash register. Information is then registered simply by scanning the bar-code on the article's packaging. If the bar-code scanner is to operate correctly, it has to be properly configured and the ECR has to have its relevant flags set to proper values, more specifically the fifth system flag (see PLU bar-code programming section in the previous chapter).

Example: Customer buys three pieces of butter that have a bar code on its packaging.

Step	Press
1.	<div>3</div> <div>PLU</div>
2.	using a bar-code scanner

Butter

3*34.90

A

=104.70

- registration by a bar-code entered via the keyboard

In the case of bar-code scanner failure or if a bar-code is damaged, it is possible to enter the bar-code via the keyboard.

Example 1: Registration of beer with the bar-code 8 586001 760096.

Step	Press
1.	<div>EAN</div>
2.	<div>8</div> <div>5</div> <div>8</div> <div>6</div> <div>0</div> <div>0</div> <div>1</div> <div>760096</div>
3.	<div>EAN</div>

Beer

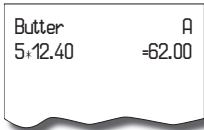
1*12.40

A

=12.40

Example 2: Registration of five beers with the bar-code 8 586001 760098.

Step	Press
1.	<div>5</div> <div>PLU</div>
2.	<div>EAN</div>
3.	<div>8</div> <div>5</div> <div>8</div> <div>6</div> <div>0</div> <div>0</div> <div>1</div> <div>760098</div>
4.	<div>EAN</div>



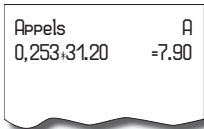
Weight entry by electronic scales

The Euro-2100 is able to read the weight of an article directly from connected electronic scales. Communication between the cash register and the scales is possible only in “R” and “T” mode. The electronic scales are connected to SCAN./SCALE connector of the cash register.

Press the d button to communicate the weight with the SCALES. You can change the weight of the article (add or take from the goods on the scales) until the any key is pressed on ECR keyboard. After the weight is read by the cash register, enter the PLU number and press the (PLU) button. If the weight on the scales is unstable, it is not possible to continue the sale.

Example: Registration of PLU no. 21 with weight 0.253 kg.

Step	Press
1.	
2.	reading of weight from scales
3.	



To achieve the correct operation of the electronic scales, it is necessary to set the type of scales by programming the fifth system flag of cash register.

Ask your local dealer for more information on the particular electronic scales type connectivity.

Registration using an external PC keyboard

The standard PC keyboard can be easily connected to the Euro-2100. Registration is then similar to registration via the internal keyboard.

If one key is used for two characters, then the character in a lower part is chosen by pressing the actual key, the character in the upper part on the left side is chosen by pressing this key along with the Shift key and the character in the upper part on the right side is chosen by pressing this key along with the Alt key.

Ask your local dealer for more information about external PC keyboard connection.

PC ON-LINE mode

Data are transmitted from a PC to the cash register

The cash register software allows the use of the Euro-2100 as a fiscal printer. The cash register replaces the POS printer and the PC fiscal module. This means that the cash register prints the receipt based on your data from your PC software.

This feature is useful where simple registration is not sufficient due to the high quantity of PLUs and where sales’ cadence is not high.

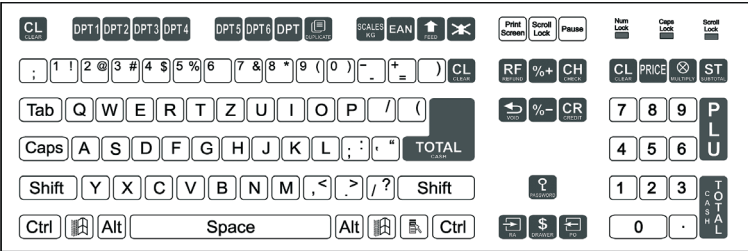
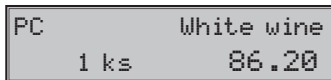


Figure 4.1
PC keyboard layout for the Euro-2100 ECRs.

Setting up the PC ON-LINE mode:

The cash register is ready to communicate with a PC (PC ON-LINE mode) in “R” or “T” mode, when no sale is in a process of registration. The PC can transmit information on a PLU sale, a PLU refund, a sale finishing signal, or a PC-ON LINE mode finishing signal. The text “PC” is displayed on the display.



Sales data transmitted from PC are added into the financial data of departments, tax levels, and sales data of PLU called PC ON-LINE. The keyboard is inoperable in the PC ON-LINE mode, except the (CLEAR) key. By using this key it is possible to exit the PC ON-LINE mode any time. The text “PC” will disappear from the display.

Switching the cash register off and on prepares the cash register for standard registration.

Sales data transmitted from PC are added to the financial data of the departments and tax levels. Sales values are recorded in the cash register under a special PLU called PC ON-LINE. PC ON-LINE sales values can be printed and reset by using the full PLU report.

It is impossible to manipulate programmed and sales data of the special PLU called PC ON-LINE in the EuroSoft software.

Data are transmitted from the cash register to PC:

The cash register software allows use of the Euro-2100 as on-line information source for PC or payment terminal. This allows transmission of the sales data to a PC for processing or transmitting data for payment terminal. It allows the preparation of an invoice or delivery note by the PC according to information from the cash register.

Setting up the PC ON-LINE:

If the cash register is in “R” or “T” mode, pressing the (CASH), (CHEQUE) or (CREDIT) keys will transmit information about the PLU sale, PLU refund, purchase finishing signal and information about type and amount of payment to the PC. The text “PC” will appear on the display during the communication at the end of sale when the sale is finishing.

By switching the cash register off and on, the cash register is ready for standard registration.

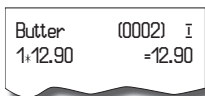
The data transmission direction for the PC ON-LINE mode is set by the setting the fifth system flag, digit no. 5 to 1.

Ask your local dealer for more information about PC ON-LINE mode.

Clearing

In the following example, the price 12.30 was incorrectly registered instead of 12.90

Step	Press
1.	
2.	
3.	



Void is used just to correct already sold items in the the non-finished sales.

- correction of the last entry (direct voidance)

Example: The previous item was registered incorrectly and it is necessary to make a correction. If a mistake is made in an incorrect department, PLU, percentage, deduction or other entry, void the incorrect entry by pressing the b (Void) key immediately after the incorrect entry.

Step	Press
1.	<div>1100250DPT7DPT2</div>
2.	<div>RF</div>
3.	<div>1350DPT7DPT2</div>

Department 2	A
1,12.50	=12.50
VOID	
Department 2	A
1,12.50	=12.50
Department 2	A
1,13.50	=13.50

Bread	A
1,27.00	=27.00
Butter	A
1,31.20	=31.20
VOID	
Bread	A
1,27.00	=27.00

(1)	Bread
1	27.00

- voidance of receipt (subtotal voidance)

Example: Void the whole receipt. Subtotal voidance is used for total voidance of a sale. It can be used only before pressing the **TL** (Total) key.

VOID
-12.50

- correction of the previous entries (indirect voidance)

You can void any previous registrations (not the last). Pressing the special keys, you can display any previous registration. Then press the **RF** (Void) key. Special keys are: **SHIFT** **S** **Q** (jump to the previous), **S** **Q** (jump to next), **SHIFT** **END** (jump five items back) and **SHIFT** **SCALE** (jump five items forth).

Example: Void the first PLU in the sale (Gen-tian Cheese).

Step	Press
1.	<div>1DPT</div>
2.	<div>2DPT</div>
3.	<div>6DPT</div>
4.	<div>ST</div>
5.	<div>RF</div>
6.	<div>ST</div>

Department 1	A
1,31.20	=31.20
Department 2	A
1,18.60	=18.60
Department 6	A
1,6.30	=6.30
SUBTOTAL	56.10
SUBTOTAL VOID	-56.10

RECEIPT VOIDANCE	

Step	Press
1.	<div>27000DPT7DPT2</div>
2.	<div>RF</div>
3.	<div>31200DPT7DPT2</div>

Percent surcharge and discount

The system permits programming of a per cent that is usually used for a surcharge **SHIFT** **CH** **+** and for a discount **SHIFT** **CH** **-**. If you need to register a different rate than the one that is pre-program-

med, enter the numeric value of the surcharge or of the discount before pressing the relevant key. The value of the new rate will be effective only for one registration.

Percent surcharge

Example 1: A five per cent surcharge for special services is added. In the following example the **SHIFT CH%** (Surcharge) key was programmed for five percent.

If all items within a transaction have the same handling charge, the charge may be added at one time for the whole transaction. When all items have been registered on which the surcharge is applied, press the **ST** (SUBTOTAL) and then the **SHIFT CH%** (SURCHARGE) key.

Step

Press

1.

3

1

2

0

DPT 1

DPT 2

2.

SHIFT

CH%

Department 2

A

1,31.20

=31.20

ADD ON%+

5.00%

=1.60

ADD ON%+

1.60

Example 2: Enter other than pre-programmed rate (10 %).

Step

Press

1.

3

1

2

0

DPT 1

DPT 2

2.

1

0

SHIFT

CH%

Department 2

A

1,31.20

=31.20

ADD ON%+

10%

=3.10

Entering the surcharge value from the keyboard is possible if the value is lower than the pre-programmed limit (see seventh system flag).

In the case of a linked PLU, the surcharge is applied to the first item only.

Percent discount

Example: Pensioners are provided a 10% discount.

Step

Press

1.

3

1

2

0

DPT 1

DPT 2

2.

SHIFT

CR%

Department 2

A

1,31.20

=31.20

DISCOUNT%--

10%

=-3.10

DISCOUNT%--

3.10

If the same discount is to be deducted from all PLUs within the transaction, the discount for the whole transaction may be entered in one operation. When all items on which the discount is to be applied are registered, simply press the **ST** (SUBTOTAL) key, then the **SHIFT CR%** (DISCOUNT) key. Use of other than pre-programmed per cent discounts is the same as a percent surcharge.

Entering the discount value from the keyboard is possible if the value is lower than the pre-programmed limit (see eighth system flag).

In the case of a linked PLU, the discount is applied to the first item only.

Reference number and customer number

Certain transactions require that a reference number is printed on the receipt. If a reference number is required, use the **\$** (DRAWER) key.

By pressing the **\$** (DRAWER) key when there is no open sale, the cash register drawer

Step

Press

1.

3

1

2

0

8

5

\$


DOCUMENT NUMBER










#312085

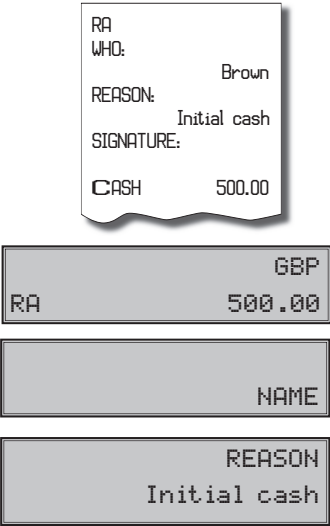
opens and the printer prints a receipt with the “Drawer open” notification.


The text DOCUMENT NUMBER can be changed in the programming mode. See Function texts programming section.

Received on account


The  (RA) key is used to record non-fiscal payments (that are received on account). As an example, daily initial cash can be entered into the cash register drawer. The register enables printing a document that confirms the receive on account transaction. The RA transactions are reported in the cash register financial report. According to your needs, the document can contain the name of the person that performed the RA and the reason for the RA. The name and reason of an RA can contain up to 24 characters. There is space for a signature on the document.











Step	Press
1.	     
2.	
3.	enter name
4.	
5.	enter reason
6.	



Entry of person name and reason is not mandatory. If you do not need to enter these data, finish RA operation by double pressing the  (SUBTOTAL) key.

Paid out (cash or cheque)

Cash or cheques paid out from the register drawer that are not connected with a sale are recorded using the  (PO) key. This function is used, for example, by taking away revenue, when cashiers are changing, or when it is suitable to lower the amount of money in the drawer. According to your needs, the document can contain the name of a person and the reason for the PO operation. The name and reason of the PO can contain up to 24 characters. There is space for a signature on the document.

Step	Press
1.	      
2.	
3.	enter name
4.	
5.	enter reason
6.	

Entry of a name and a reason is not mandatory.
If you do not need to enter these data, finish
the PO operation by double pressing the **ST**
(**SUBTOTAL**) key.

If the PO operation involves cheques, press the
(Cheque) key instead of the (Cash) key.

PO
WHO:
REASON:
SIGNATURE:
CASH

BROWN
Cashier change
2000.00

GBP
PO 2000.00

Refunds

The **SHIFT RF** (**REFUND**) key records refund en-
tries during a PLU sale or as an independent
operation. The function is used, for example,
in handling complaints.

Example 1: It is necessary to refund goods reg-
istered under department no. 2 with program-
med price 25.20.

REFUND
Department 13 A
1-31.20 =-31.20

Example 2: Returning of goods registered un-
der department no. 13 with entering of price
via keyboard.

Step	Press
1.	SHIFT RF
2.	DPT7 DPT2

REFUND
Department 2 A
1-25.20 =-25.20

Department 2
1 -25.20

Step	Press
1.	3 PRICE
2.	SHIFT RF 1 3 DPT

resp. (**1 3** **SHIFT RF** **DPT**)

REFUND
Department 13 A
3-31.20 =-93.60

After pressing the **SHIFT RF** (**REFUND**) key, the
“REFUND” label appears on the display. After
pressing the (**DPT**) key the count of refunded
products and the name of DPT is displayed
in the upper right side of the display; also the
value of refunded products is displayed in the
bottom line.

Example 3: Returning of three pieces of the
same item registered under department no. 13
with entering of price via keyboard.

Step	Press
1.	3 1 2 0 PRICE
2.	SHIFT RF 1 3 DPT

resp. (**1 3** **SHIFT RF** **DPT**)

REFUND
Butter A
1-31.20 =-31.20

Example 4: Returning of items registered under the PLU no. 3.

After pressing the **SHIFT** **RF** (**REFUND**) key, the “REFUND” label appears on the display. By pressing the **PLU** (**PLU**) key the count and the name of refunded product is displayed in the upper right side of the display and the value of refunded products is displayed in the bottom line.

Example 5: Returning of five pieces of the same item registered under PLU no. 13. with entering of price via keyboard.

Step

Press

I.

5

MODE

3

1

2

0

PRICE

II.

SHIFT

RF

1

3

PLU

resp.

(1 3)

SHIFT

RF

PLU

REFUND

Chocolate

A

5x-31.20

=-156.00

Example 6: Returning of goods registered under PLU no. 13. with entering of price via key-

Step

Press

I.

3

MODE

1

2

0

PRICE

II.

SHIFT

RF

1

3

PLU

resp.

(1 3)

SHIFT

RF

PLU

III.

CH

MODE

REFUND

Chocolate

A

5x-31.20

=-156.00

board. Payment was tendered in cheques (the value of refund flag is 1).

The manner of handling for cheque and credit refund depends on the setting of the refund flag.

Setting the refund flag:

- 1) Switch the cash register into the “X” mode:
- 2

MODE
- 2) Press the numbers

8

1

0

 on the numeric keyboard.
- 3) Press the

MODE

 (**MULTIPLY**) key. The information about the change and the flag value are displayed: 0 – subtracting from cash, 1 – subtracting by sale finish type (default).

Registration using the euro currency

The Euro-2100 cash register is able to register sales in the Euro currency. According to the stage, it is possible to register in euro, particular national currency (1st and 2nd stage), or any other foreign currency (3rd stage).

The registration in euro is divided into four stages:

Stage without euro

The cash register works without euro.

First euro currency stage

In the first stage, the master currency is the national one, the secondary is euro. The customer can pay either in national currency or in euro.

Procedure:

If the **ST** (**SUBTOTAL**) key is pressed, the amount of the sale on the display is in national cur-

rency. If the **PRICE** (**PRICE**) key is pressed, the amount of sale is converted to euro. Pressing the **PRICE** (**PRICE**) key again, the subtotal amount currency toggles from national to euro. After choosing the required currency, press the **TL** (**TOTAL**) key.

All financial data are stored in the national currency. Only the cash amount, the cash in the drawer, and RA and PO amounts are stored in both currencies. The RA or PO operation in the national currency can be done according to the procedure described in previous chapter. As to an RA or PO operation in euro, it is similar to any common operation, but first it is necessary to press the **PRICE** (**PRICE**) button.

Step

Press

I.

PRICE

II.

5

0

0

0

0



0

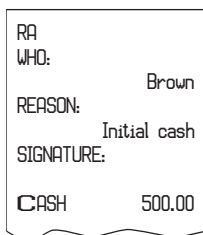
SHIFT

SCALE

III.

TL

Step	Press
4.	enter name
5.	
6.	enter reason
7.	




Example: RA of 500.00 euro in the first stage of the Euro currency.

Second euro currency stage








In the second stage, the master currency is euro, the secondary currency is national one. The customer can pay either in euro or in national currency.

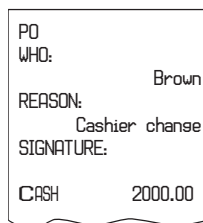
Procedure:

If the **ST** (**SUBTOTAL**) key is pressed, the amount of the sale on the display is in master currency – euro. If the **PRICE** (**PRICE**) key is pressed, the amount of the sale is converted to the national currency. Pressing the **PRICE** (**PRICE**) key again, the subtotal amount is converted and displayed in the national currency or in euro. After choosing the required currency, press the **TL** (**TOTAL**) key.

All financial data are stored in euro. Only the cash amount, the cash in the drawer, and RA and PO amounts are stored in both currencies. The RA or PO operation in the euro can be done according to the procedure described in the previous chapter. As to RA or PO operation in the national currency, it is similar to any common operation, but first it is necessary to press the  (PRICE) key.

Example: Pay out cash of 2,000 DKK in the 2nd stage of euro currency.

1. 
2.   
3. 
4. enter name
5. 
6. enter reason
7. 



The transition into the second stage is described in the program manual of this user manual.

Third stage of the Euro

In the 3rd stage, the master currency is euro, the secondary currency is any foreign one. The customer can pay either in euro or in any foreign currency.

Procedure:

If the **[ST]** (**SUBTOTAL**) key is pressed, the amount of the sale on the display is in the master currency – euro. If the **[PRICE]** (**PRICE**) key is pressed, the amount of the sale is converted to the secondary currency. Pressing the **[PRICE]** (**PRICE**) key again, the subtotal amount is converted and displayed in the national currency or in euro. After choosing the required currency, press the **[T]** (**TOTAL**) key.

All financial data are stored in euro currency. Only the cash amount, the cash in drawer, and RA and PO amounts are stored in both currencies. The RA or PO operation in the euro currency can be done according to the procedure described in the previous chapter. As to an RA or PO operation in the secondary currency, it is similar to any normal operation, but first it is necessary to press the **PRICE** (Price) key.

Note: The transition into the 3rd stage is described in the program manual of this user manual.

Reports

How to print out reports

There are two modes for printing reports: “X” mode and “Z” mode.

ading may be made in any numbers. It does not affect the cash register memory.

Use the reading functionality of “X” mode if it is necessary to obtain sales information since the last resetting. It is used to generate reports during the day, between two shifts, etc. The re-

Use the resetting functionality of “Z” mode when you need to print reports and to clear the register’s memory. “Z” report is usually carried out once a day after finalising the daily report.

Generated reports

Report	“X” mode	“Z” mode
Department	•	
PLU	•	•
Cashier	•	
Financial	•	
Total (daily)	•	•
Periodical	•	•

In the “Z” mode the department report, the cashiers report and the financial report are carried out within the total “Z” report.

Report contents

Department report

When printing a full department report, only departments with non-zero sales are printed.

Report contains:

- 1) Name of the department
- 2) Number of items sold in the department
- 3) Total value of the items sold in department
- 4) Total value of sales including all departments

In the “Z” mode it is possible to print the department report only within the total “Z” report. See chapter on total daily “Z” report.

PLU report

Three different types of PLU reports can be printed: the individual PLU report, report of PLU range, and the full PLU report. Each of these types can contain the PLU number (depends on the report mode) or calling and stock status according to the setting of second PLU flag.

When printing a PLU report, only PLUs with non-zero sales are printed.

A PLU report contains:

- 1) Number of the PLU (selective according to the mode of report function calling).

- | | |
|--|--|
| 2) The name of the PLU. | 20) Cash value in the cash drawer. |
| 3) Number of the PLU sold. | 21) Cash value in the cash drawer in foreign currency (Euro) |
| 4) Financial value of the PLU sold. | 22) Cheque value in the cash drawer. |
| 5) PLU stock status (according to the setting of the second PLU flag). | |

The full PLU report prints by PLU the total financial value of sales from the last reset. PLUs that were not activated are not printed.

None of the above categories with zero values will be printed. The financial report can be printed only by means of the total "Z" report in the "Z" mode. See chapter on total daily "Z" report.

Stock level report

Euro-2100 allows to print more types of stock level reports: stock level report of one PLU, stock level report of the range of PLUs and total stock level report.

Only the data about PLU with store level listing allowed, with value different from zero and not forbidden PLU will be printed in the stock level report.

Report contains:

1. PLU number
2. PLU name
3. Current PLU stock level

Cashier report

When printing the full cashiers report, only non-zero values will be printed.

The cashier report prints:

- 1) The cashier's name.
- 2) The number of sales transactions (number of customers) per cashier.
- 3) The total sales value for each cashier.

In the "Z" mode the cashier report can be printed only by means of the total "Z" report. See chapter on total daily "Z" report.

Financial report

The financial report contains:

- 1) Value of cumulative totals (grand totals) GT1, GT2 and GT3.
- 2) Taxable amounts and taxes of all tax levels.
- 3) Overall sales value.
- 4) Overall sales value without tax.
- 5) Value of total tax.
- 6) Number and value of voids.
- 7) Number and value of refunds.
- 8) Number and value of discounts.
- 9) Number and value of add-ons.
- 10) Number and value received by cash payment.
- 11) Number and value received by cash in foreign currency (Euro)
- 12) Number and value received by check payment.
- 13) Number and value received by credit card payment.
- 14) Number and value received on accounts by cash.
- 15) Number and value received on accounts by cash in foreign currency (Euro)
- 16) Number and value received on account by cheques.
- 17) Number and value paid out by cash.
- 18) Number and value paid out by cash in foreign currency (Euro)
- 19) Number and value paid out by cheques

Total daily "X" report

Total "X" report contains:

- consecutive number of the total "Z" reports that have already been executed
- department report
- cashier report
- financial report

Periodical "X" report

The periodical "X" report gathers financial data from the total "Z" report in the course of longer time period (i.e. a week, a month, etc.). This report prints all financial data accumulated since the last total "Z" report.

Total daily "Z" report

The total "Z" report contains:

- consecutive number of the total "Z" report being executed on the machine
- department report
- cashier report
- financial report

After printing the memory contents of the total "Z" report, the data are added to the memory

registers of the periodical report and they are then reset.

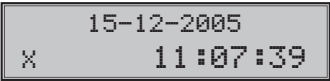
The periodical “Z” report gets the data from the total “Z” report throughout a longer time period. It is usually printed weekly, monthly, or quarterly or as needed. After printing the memory contents of the periodic “Z” report, the memory is cleared.

Periodical “Z” report

How to print “X” reports

Switch the cash register into the “X” mode: . Press any of the key combinations shown in table %%% to print proper reports. The “X” report can be printed as many times as desired without influencing data in ECR memory.

Using this type of report you can get information about sales during the day. Values can be used to check the cash balance in cash drawer, the daily turnover in the store, and the sales when shifts or cashiers are being changed, etc.



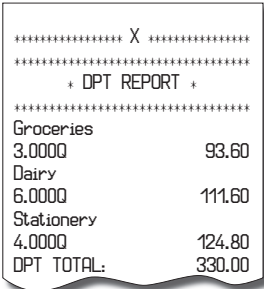
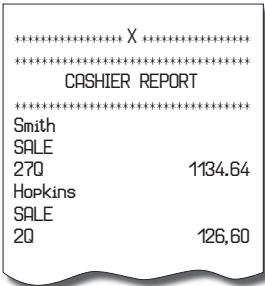
Pressing the PLU (REFUND) key before pressing the (PLU) tlačítko (REFUND), čím je na uzávěrke pred predajnými údajmi vytlačené aj číslo PLU.

“X” report	Key operation
Cashier	
Financial	
Departments	department button (– ,)
Full PLU	()
Individual PLUPLU,number (1 – 2100)	(...) ()
PLU range	starting PLU number finishing PLU number ()
PLU stock level	
Total (daily)	
Periodical	

Samples of “X” reports

The cashier’s report provides an overview of the activity of individual cashiers. The report provides a summary of the number of customers served by a particular cashier and the total receipts. This data permits rewarding the staff based on total receipts or productivity and intensity of work.

The department report provides a picture of the sales frequency of individual articles within a group of products. The cash register provides data concerning the number of items sold and turnover in the department, as well as the share of department sales as a whole.



```

***** X *****
*****
          PLU REPORT
*****
Bread
10.0000          118.20
Butter
10.0000          259.00
Fruit tea
7.0000           35.40
Cigarettes
1.0000           70.00
PLU TOTAL:      482.60
  
```

PLU report provides the most exact preview of each item sales. Example of report on the right side is without listing the stock level and number of PLU. Example of report on the left side contains maximal available data of PLU report. Because this report provides most extended data, we recommend to use a PC with attached SW for programming of PLU and stock level control and for evaluation and print of sales preview.

The total "X" report provides detailed sales information during the day. It contains sales information within departments, total receipts, the cashier's share of receipts, taxable revenue corresponding to the tax rate, the number of corrections and refunds, and the cash or check amounts in the drawer. Receipts are separated from non-business transactions, i. e. received on accounts and payouts.

```

***** X *****
*****
          DAILY REPORT
*****
* Z1 # :          0001 *
*****
          * DPT REPORT *
  
```



```

***** X *****
*****
          TOTAL REPORT
*****
+Znt# :          0003+
*****
          DPT REPORT
*****
Groceries
13.0000          330.00
Dairy
6.0000           111.60
Stationery
4.0000           124.80
DPT TOTAL:      566.40
*****
          CASHIER REPORT
*****
Hopkins
SALE
70              566.40
*****
          FINANCIAL REPORT
*****
GT1              2789.97
GT2              2671.67
GT3              -118.30
TAXABLE VAT5%   566.40
NET VAT5%       539.42
VAT5%           26.98
TOTAL SALE
70              566.40
NET TOTAL       539.42
VAT TOTAL       26.98
REFUND
20              -37.20
VOID
20              58.20
CASH
50              -502.00
CHECK
10              68.40
CREDIT
10              1000.00
RA-CASH
10              500.00
PO-CASH
10              4000.00
RA-CHECK
10              3000.00
CASH
DRAWER          -4002.00
CHECK
DRAWER          3068.40
CREDIT
DRAWER          1000.00
  
```

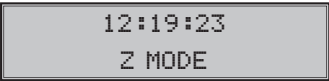
The “X” report is often used to check revenue and cash received when the operator changes during the working day. Management can secure sales information at any time during a day.






The number of all total “Z” reports performed on the cash register is marked as Z1.


















How to print “Z” reports

Switch the cash register into the “Z” mode:  . Press the required keys according to the table. If a large number of PLUs is used, it is recommended that a computer be used to print the PLU report.

During PLU report cash register allows by pressing /shift/ /rf/ (REFUND) before pressing the key /PLU/ to print number of PLU in a front of sales data.



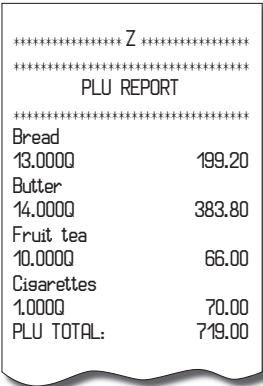
To execute a PLU report without printing, press      PLU. PLU sales amounts will be deleted without printing.

“Z” report	Key operation
Full PLU	( ) 
Individual PLU, PLU number (1-2100)	 ...  ( ) 
PLU range	starting PLU number   finishing PLU number   ( ) 
Total (daily)	
Periodical	

Samples of “Z” reports

The PLU report provides the most precise overview of the sales of each product. The sample report on the left side is without stock printouts and without PLU numbers (without pressing (Refund) before pressing (PLU)). The sample report on the right contains all information. As it provides the most detailed information, it is recommended that a computer be used for PLU programming, for running store records, for evaluation and the for printing sales reports. The EuroSoft software supplied with the cash register is sufficient for basic operations.

Number of all Total “Z” reports performed on the cash register is designated as Z1 and the number of all Periodical “Z” reports performed on the cash register is Z2.



```

***** Z *****
*****
TOTAL REPORT
*****
* Z1 #: 0004 *
*****
* DPT REPORT *
*****
Groceries
13.0000 330.00
Dairy
6.0000 11.60
Stationery
4.0000 124.80
DPT TOTAL 566.40
*****
CASHIER REPORT
*****
Hopkins
SALE
70 566.40
*****
FINANCIAL REPORT
*****
GT1 2789.97
GT2 2671.67
GT3 -118.30
TAXABLE VAT5% 556.40
NET VAT% 539.42
VAT5% 26.98
TOTAL SALE
70 566.40
NET TOTAL 539.42
VAT TOTAL 26.98
REFUND
20 -37.20
VOID
20 58.20
CASH
50 -502.00
CHECK
10 68.40
CREDIT
10 1000.00
RA-CASH
10 500.00
PO-CASH
10 4000.00
RA-CHECK
10 3000.00
CASH DRAWER -4002.00
CHECK DRAWER 3068.40
CREDIT DRAWER 1000.00

```

```

***** Z *****
*****
MONTHLY REPORT
*****
* Z2 #: 0002 *
* Z1 #: 0004 *
*****
* DPT REPORT *
*****
Groceries
47.0000 1250.21
Dairy
34.0000 690.86
Liquors
5.0000 135.00
Stationery
12.0000 374.40
Hardware
3.0000 93.60
DPT TOTAL: 2544.07
*****
CASHIER REPORT
*****
Smith
SALE
270 1134.64
Hopkins
SALE
110 1409.43
*****
FINANCIAL REPORT
*****
GT1 2789.97
GT2 2671.67
GT3 -118.30
TAXABLE VAT5% 2369.47
NET VAT5% 2256.63
VAT5% 112.84
TAXABLE VAT0% 174.60
NET VAT0 275.69
VAT0% 0.00
TOTAL SALE
380 2544.07
NET TOTAL 2431.23
VAT TOTAL 112.84
ADD ON%*
20 6.24
DISCONT%-
10 -0.10
REFUND
60 -118.20
VOID
50 128.90
SUBTOTAL VOID
10 56.10
CASH
350 1448.67
CHECK
1068.40
CREDIT
20 1027.00
RA-CASH
20 1000.00
PO-CASH
30 6200.00
RA-CHECK
10 3000.00
CASH DRAWER -3751.33
CHECK DRAWER 3068.40
CREDIT DRAWER 1027.00

```


Euro2A software

The Euro-2100 ECR is also delivered with the Euro2A software that makes programming, reporting and set-up for the Euro-2100 user easier.

The software allows simple and easy editing and transfer of all possible ECR data (ranging from setting of the system flags, through logos up to programming PLUs and departments), enables back-up of the ECR data, processes sales data and many more useful functions.

The most up-to-date version of Euro2A software is available for you to download from company's web page, <http://www.elcom.sk>.

Optional ECR accessories

Cash drawer

The Euro-2100 ECR allows connection of majority of cash drawers that are based on solenoid opening mechanism (12-15 V; 1.2 A/24 V; 1.5 A). The ECR is equipped with cash drawer interface by default.

The cash drawer is connected to the ECR via a cable that enables its automatic opening. The cable and the connector is easily detachable. Small establishments will surely welcome the possibility to place the cash drawer anywhere they wish and open it automatically using the ECR. The cash drawer is opened automatically only if the ECR is powered from mains; it will not work when ECR is powered from the internal battery.

It is also possible to connect a FLIP TOP cash drawer (24 V) to the Euro-2100.

Ask your authorised Euro-2100 dealer on delivery and installation of cash drawers.



Electronic scales



The Euro-2100 ECR allows connection of multiple types of electronic scales. The scales are usually equipped with the serial interface that enables them to co-operate seamlessly with the Euro-2100 cash registers. You can use electronic scales also separately, without connection to the Euro-2100. The electronic scales that are delivered with Euro-2100 ECRs are certified and equipped with a communication cable upon request.

Ask your authorised Euro-2100 dealer on delivery and installation of electronic scales.

Bar-code scanners

Interface for connecting bar-code scanners is a default feature of Euro-2100 ECRs. In case you wish to use bar-code scanners, this chapter will help you select the bar-code scanner suitable for your establishment. In any case, we recommend consulting this decision with your authorised Euro-2100 dealer.



The bar-code scanner is connected to the ECR via the standard RS-232 interface. The same interface must be available on the bar-code scanner. The ECR supplies +5 V DC voltage to power the bar-code scanner. Both the ECR and the scanner must be programmed appropriately in order to work together properly.

Metrologic bar-code scanners are the recommended option for Euro-2100 ECRs. Ask your authorised Euro-2100 dealer for further information on bar-code scanners.

Metrologic MS-5145 ECLIPSE

Scanning after pressing a trigger, hand scanner without stand, power supply 5 V, 72 chars/s, scanning range 140 mm, RS-232 interface (model 5145 R).

**Metrologic MS-6720**

Combination of hand and stand scanner, great ergonomics, concentrated omnidirectional scanning mode, flexible handling, adjustable stand, easy programming, low cost, power supply 5 V, 1,000 rows/s, maximum scanning range 205 mm.

Metrologic Orbit MS-7120

Multidirectional, quick, presentable laser bar-code scanner. It's equipped with holographic scanning technology for barcodes. HoloPrism VLD technology allows focusing of rays in very large scanning field depth (0-215 mm). The design is directed at use in limited space. Orbit is ideal for small stores. Its unique shape allows this scanner to be also used as a hand scanner for large packages. The scanning head can be vertically tilted up to 30 degrees. Power supply is 5 V, 1,200 rows/s, RS-232 interface available.

Metrologic MS-7625 - Horizon

Hardy runner for professionals, this compact scanner offers dense 20-row omnidirectional scanning grid, that offers quick and highly effective scanning of bar-codes. The bar-code is scanned in one go over the scanning head. The price/performance ratio places this scanner as ideal candidate for convenience stores, hyper- and supermarkets and large shopping centres. Power supply is 24 V, 2,000 rows/s, maximum scanning range is 179 mm.

Metrologic MS-9520 Voyager

Handheld laser scanner, hand and stand use. Row scanning mode, easy programming, scanning speed 72 rows/s, scanning range 205 mm, power supply 5 V, RS-232 interface (model 9520 R).

Ask your authorised Euro-2100 dealer for further information for scanner types not mentioned here.

Electronic payment terminals

The Euro-2100 ECR allows connection of electronic payment terminal to allow payment by credit/debit cards. You can ask any banking institution to supply and connect the payment terminal.

**External keyboard**

There are multiple types of external keyboards available for the Euro-2100 ECR.

The first type of external keyboard is the EK-3000 keyboards that ideally complement the system in retail, since their use is easy to learn and quick. The keys are fully programmable and of course it's possible to easily replace the key labels. Every key on a EK-3000 keyboard can sustain up to 50 million strokes which is seven times more than a PC keyboard can sustain. The logging in of cashiers is made easy thanks to the RF reader, which is an optional accessory of the EK-3000.



Another advantage over a PC keyboard is the programmable key layout, along with pleasing design. The keyboard covers are manufactured in attractive green or blue, in grey or in imitation wood. The EK-3000 can also be connected to a PC or any electronic device that is equipped with PS/2 port. The Elcom keyboard allow our customers to express their uniqueness and identity.

The second option is the standard PS/2 PC keyboard.

UV LED banknote checker

The Euro-2100 ECR can optionally be equipped with UV LED banknote checker. Since the ratio of forged banknotes is not negligible, this accessory will help you uncover false banknotes. Now you can use your Euro-2100 to check banknotes and save on buying separate equipment.

Optional internal battery

The design of Euro-2100 makes it easy to use the ECR as portable and take it out-doors. It's easily portable and with help of internal battery it can be used as back-up ECR in case of a power black-out. Minimum battery life is eight hours.

LAN connection options

The possibility to connect Euro-2100 ECR into an Ethernet network is offered by the RS-232/Ethernet converter.

What is to be gained from this? You can save lot of finances, since this will enable you to create single ECR network that can be composed from various types of Elcom cash registers.

New features of Elcom ECRs

The GSM communication widens the possibilities for ECR/PC data interchange. Detailed and quickly obtained data are crucial for proper management in retail. This modern technology will greatly facilitate connection with any of Euro-2100 ECRs.

Helpful advice

Information and error messages

If it is necessary to inform the operator on the an error state, the error messages shown in table 8.1 are displayed.

Message	Meaning
100%	No external power supply is connected. The power supply is internal accumulator. The percentage value indicates the stage of internal accumulator charge.
ADD ON - DISCOUNT LIMIT OVER	Add on or discount amount limit over. Check the system flags.
ADD ON - DISCOUNT TO NEGATIVE VALUE	Add on or discount to negative amount disabled.
ADD ON - DISCOUNT TO RETURNABLE PACKS	Add on or discount to returnable packs disabled.
AMOUNT DUE	Information about amount that has to be paid for sale termination.
BAR CODE DUPLICATE	Bar code is assigned to another PLU.
CARD NOT ACCEPTED	Credit card not accepted during EFT terminal payment.
CODE SORTING	ECR sorts programmed bar codes.
COMMUNICATION ERROR	Communication error between ECR and PC or EFT terminal.
CONTINUE ON SALE	ECR is ready to continue on sale.
CREDIT CARD PAYMENT LIMIT OVER	Credit card payment limit is over.
DATE ERROR	Incorrect date entry.
DATE REVERSE ORDER	Incorrect date entry.
DECIMAL PLACES LIMIT OVER	Second system flag disables sale for more decimal place.
DPT INACTIVE	Sale through this DPT is forbidden.
DUPLICATE PRINT	The printing of duplicate of last receipt.
ECR -- PC	The communication between ECR and PC running.
ECR AFTER REPORT	No sale from daily (total) report execution.
ENTER DOCUMENT NUMBER	It's mandatory to specify a customer. Enter 8-digit customer number.
ENTER SERVICE CODE	Unblocking programming mode can be done only by entry of service code.
ENTER THE AMOUNT OF CUSTOMER CASH	Enforced entry of customer cash before sale termination.
ENTRY ERROR	Unexpected entry. Incorrect sequence of keys pressed.
FINISH PURCHASE	Maximum count of PLU in a sale has been reached (50), or maximum count of lines in one receipt has been reached.
FLAG ERROR	Incorrect flag entry.
FORBIDDEN ENTRY OF RETURNABLE PACKS	Operation of bottles not can be performed.
GT LIMIT OVER	Grandtotals reached the maximum amount. Execute daily (total) and periodical report. Call your service technician.
EXECUTE REPORTS	
GT NEGATIVE VALUE	Performed operation caused negative Grandtotal.
HEAD OVERHEAT	Information on the thermal head overheat. Wait a moment until normal condition returns.

Message	Meaning
HEAD UP POSITION	The thermal head is in an up position. Move it down to enable printing.
ILLEGAL EURO PHASE	Access is not possible to this Euro phase.
ILLEGAL INVASION TO EPROM	Call for service!
ILLEGAL PAYMENT	This way of payment is not possible.
ILLEGAL TAX RECEIPT	Receipt data has not been counted to ECR financial data. Illegal receipt.
INACTIVE TAX	Tax level cannot be assigned to DPT or PLU.
INCORRECT MODE	Incorrect mode. Finish operation before mode switching.
INVALID RECEIPT	Receipt data is not counted to ECR financial data.
ITEM NOT SOLD	PLU not sold.
MAX. STOCK LIMIT OVER	Stock amount reached max. 999 999,999.
MULTIPLICATION LIMIT OVER	Multiplication reached max. amount to 000.
NOT PROCESSED BARCODE	Bar code not processed during sale.
OPEN PRICE INACTIVE	DPT (PLU) flag prevents entry of price from keyboard.
OPERATION CAUSED NEGATIVE STOCK	PLU flag prevents entry to negative stock.
PAPER MISSING	Paper is missing in the printer.
PARAMETER ERROR	Incorrect setting of ECR parameters.
PASSWORD	It is necessary to cashier login.
PASSWORD DUPLICATE	Password is assigned to another cashier already.
PAYMENT NOT ACCEPTED	Payment not accepted during EFT terminal payment.
PERFORM DAILY REPORT	Perform daily (total) report.
PERFORM MONTHLY REPORT	Perform periodical report.
PLU INACTIVE	PLU flag disables the sale of this PLU.
PRESS KEY SUBTOTAL	Press subtotal.
PRICE HALO LIMIT OVER	HALO limit over. Check the flags of DPT or PLU.
PRICE MISSING	Programmed price is zero.
Prn	Receipt printing off. The printing can be switched on by pressing f g button.
PROCESSING ERROR	Error occurs during payment through EFT terminal.
PROGRAMMED PRICE INACTIVE	DPT or PLU flag setting prevents use of programmed price.
RECHARGE BATTERY	It is necessary to connect external adaptor.
SALE	Normal sale mode. Data on receipt in R mode is counted to GT.
SALE AMOUNT LIMIT OVER	Sale amount reached maximum. Terminate the sale.
SCALES DISCONNECTED	Electronic scales are disconnected, or no data has been read.
SPLIT PRICING DENIED	PLU flag disables split pricing.
STANDBY	Standby mode. Exit the "standby" mode by pressing the A (MODE) button.
TAX LEVEL INACTIVE	DPT or PLU is assigned to inactive tax level.
TAX LEVEL LIMIT OVER	Particular tax level amount over limit from the last daily report. Perform daily (total) report.
TEAR OFF RECEIPT AND PRESS SUBTOTAL KEY	Get ready for electronic journal printing.
UNAUTHORIZED ACCESS	Cashier has no authorization to enter into this mode.
UNKNOWN CODE	Bar code is assigned to no PLU.
UNSUCCESSFUL CONTROL	Entered customer number is not saved in database of the customers (in the name of descriptive PLUs).
WAIT PLEASE	ECR executes operation that takes a longer time.
VOID DISABLED IN THIS PHASE	Void disabled in this stage of sale.

What to do in case of power failure?

Power failure

This part is important only for registers that operate without the built-in accumulator.

If you have used the register and a power failure occurs, it is necessary:

- to switch the register off
- after electric power recovery switch on the register
- if the register displays the text **Continue on Sale** it is necessary to complete the purchase and compare the resulting sum with the total of registered items within the

purchase; if one of the items has not been added to the total sum of the purchase but it was sold to the customer it is necessary to register it additionally.

Failures of register as a result of interference in power network

Accidental failures of electronic equipment are frequently caused by the power network or by electromagnetic interference. In case of intensive interference in your working area, or in case of over or under voltage, installation of protective devices can help significantly. Ask your authorised dealer or service technician for help.

What to do in case of “Low BAT., finish sale” signal

Displaying of the **Low BAT., finish sale** warns the operator about discharging the built-in accumulator.

The stage of internal accumulator charge defines the percentage value in the upper left corner of the operators display. This percentage value informs also that power supply of the ECR is internal accumulator (the external energizer is not connected). In case the charge is low (higher percentage value) the ECR displays the text **Low BAT., finish sale** for a short time and peeps alerting tone (e. g. by receipt printing when current input is higher). If the discharge is higher (percentage value is low) the text **Low BAT., finish sale** is displayed all the time and the ECR peeps alerting and interrupted tone. After this warning the cash register can print about hundred receipts.



10% Low BAT., finish sale

Long-term usage of the register when **Low BAT., finish sale** is signalled can result in decreasing the accumulator lifetime or in damaging the register. If the internal accumulator is very discharged and you want to charge it by the external adaptor, first of all be sure that ECR is turned off, then connect the external adaptor for at least 15 minutes (ECR is off). The internal accumulator is charging even the ECR is turned off.

Care of internal battery:

- a complete battery charge takes 4-5 hours.
- we suggest to charge a battery to 100 % and use it till cash register starts to signalize the battery charge requirement. Repeat this process three times at least (it elongates an endurance of the battery).
- we suggest to change the battery in case of the battery decrease, e. g. shorter work cycle of the ECR after a battery charge.
- provide a battery charging only with a connected network.

It is necessary:

- to register the purchase
- to connect the register to the external adapter
- if it is not possible to connect the register to the adapter, you should turn it off and start to use it only after connecting the adapter or battery box







Self tests

Self tests of the Euro-2100 cash register permit the checking of its functionality simply and quickly. Self testing permits the automatic checking of the functionality of electronic circuits, display segments, keyboard buttons, communication ports and the printer.

Self-test of the electronics and display

By executing this test, choice characters are gradually lightened on and off in the both displays. Full characters will gradually displayed on the cashier display. Then, the numbers from 0 to 9 are gradually displayed in the first row of segments and the letters from A to J in the second row of segments.

Procedure for running the self-test of the electronics and display:

- 1) Switch ECR into the “P” mode:  .
- 2) Press    on the keyboard.
- 3) Press the  (MULTIPLY) button.







Display test end is announced by a beep. You can continue testing other parts of register.

Self-test of the printer

The self-test of the printer prints the identification data of the Euro-2100 on the receipt and journal. It prints the program version number, cash register configuration (number of departments, number of PLU), serial interface and

FM enable/disable information and the complete character set in standard size with related hexadecimal codes.

Procedure for running the self-test of the printer:








- 1) Switch ECR into the “P” mode:  .
- 2) Press    on the keyboard.
- 3) Press the  (MULTIPLY) button.


The printer test end is announced by a beep. You can continue in testing of other parts of register.

Self-test of keyboard



The self-test of the keyboard displays the position, hexadecimal code and name after pressing a key. The test checks functionality of the register keys.









Procedure for running self-test of keyboard:

- 1) Switch ECR into the “P” mode:  .
- 2) Press    on the keyboard.
- 3) Press the  (MULTIPLY) button.
- 4) Press the individual buttons one after another and check the values on the display.
- 5) To finish the test press the  (TOTAL) button.

If the key is functional, its position, code and name will appear on the display. Press the  (TOTAL) button to finish the keyboard test.

Service codes of the ECR

Codes accessible in the X-mode (press   to access it):

-    
Switching of the time printing on the receipt.
-    
Switching the check and credit payment type when negative receipt total amount, e.

g. refund (cash, check or credit refund to customer):

- o – subtracting from cash.
- i – subtracting by sale finish type (default).

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